



KAISER-HILL
COMPANY

**First Quarter RFCA
Groundwater Monitoring Report
For Calendar Year 2004**

**Rocky Flats Environmental
Technology Site**

URS

May 2004



ADMIN RECORD

Review Exemption: CEX-105-01

SW-A-005900

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Kaiser-Hill Company, L.L.C.

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EXECUTIVE SUMMARY

This Quarterly RFCA Groundwater Monitoring Report presents water quality data resulting from groundwater monitoring at RFETS during the first calendar quarter of 2004 (1Q2004). Groundwater monitoring and data reporting are required by RFCA, and defined by the FY 2004 Integrated Monitoring Plan (DOE, 2003a and 2003b). Further details describing the groundwater monitoring program and its reporting requirements, are found in the Integrated Monitoring Plan Background Document (DOE, 2003b).

Groundwater monitoring at RFETS during 1Q2004 attempted to sample groundwater at 23 locations, down from 169 locations last quarter. Most IMP sampling is performed during the second quarter and during the fourth quarter. The locations visited during 1Q2004 included 21 IMP and 2 non-IMP sampling sites. Of these, full or partial suites of samples were collected from 13 locations (excluding treatment systems), while 5 locations were completely dry. Therefore, not all of the requested analytical data could be collected during the quarter. Overall, sample collection success for the quarter was 73%.

The overall size of the dataset for 1Q2004 was 2,563 analytical records (including laboratory QA/QC). This is down from the 16,692 records collected last quarter. The reason for the low record count during 1Q2004 is that the monitoring program only sampled RCRA wells, wells on monthly sampling schedules, or Non-IMP locations during the first quarter.

During 1Q2004 groundwater monitoring, 4 concentrations were observed to be greater than corresponding Tier I action levels for 2 different analytes (uranium isotopes). During the quarter there were no reportable Tier I results.

In 1Q2004, there were 34 analyte concentrations in groundwater that were greater than Tier II action levels. Groundwater from RCRA wells accounted for 16 of these events. The frequencies of concentrations above Tier II in other well groups include: Plume Extent (8), Plume Definition (6), and Performance Monitoring (4).

Chemicals with the highest frequency of activities or concentrations greater than Tier II include: U-233,234 (5 events), U-235 (5), U-238 (4), selenium (4), and nitrate/nitrite (4 events).

There were 16 reportable Tier II results, not including the Tier I results mentioned earlier. Groundwater from RCRA wells contained the largest number (11) of reportable concentrations above Tier II. Water from Plume Extent wells contained 5 reportable Tier II events.

A data quality assessment (DQA) of the 1Q2004 water quality data concluded that the overall data set is generally of high quality in terms of analytical precision, accuracy, representativeness, completeness, and comparability. However, there were a few issues as described below.

The metals suite missed the accuracy goal with 79% acceptable recoveries. The goal is 90%. Overall, across all analytical suites (metals, VOCs, and water quality parameters), the percentage of acceptable MS/MSD results was 86%, missing the accuracy goal of 90%.

ACRONYMS & TERMS

ALF	RFCA Action Level Framework
Analyte	Any chemical or radionuclide whose concentration or activity in a groundwater sample is analyzed by an analytical laboratory.
ASD	Kaiser-Hill Analytical Services Division. This group establishes procedures and contracts that govern the analysis of groundwater samples collected at RFETS, and the subsequent verification and validation of the analytical data. ASD is also responsible for entering the data into SWD.
Background M2SD	Background mean <u>plus</u> two standard deviations. These values are calculated on a site-wide basis for naturally occurring analytes.
BOA	Basic Ordering Agreement for analytical laboratory services.
CAS	Chemical Abstracts Service assigns a unique number to identify analytes that may have multiple chemical names. The registry number is called a "CAS Number".
CDPHE	Colorado Department of Public Health and Environment
CLP	Contract Laboratory Program (or Procedures) developed by EPA.
CRDL	Contract Required Detection Limit. A synonym for RDL.
CT	Carbon tetrachloride.
D&D	Decontamination and Decommissioning
DCE	One of several dichloroethenes, typically cis-1,2-dichloroethene.
DER	Duplicate Error Ratio calculated for real/duplicate radionuclide analyses.
DOE	United States Department of Energy
DQA	Data Quality Assessment as used in this report focuses on evaluations of the PARCC parameters.
DUP	DUP is a SWD code identifying data describing "field duplicate samples". In this report, DUP refers to data describing a duplicate groundwater sample collected in the field and associated with a REAL sample.

EPA	United States Environmental Protection Agency
Historic M2SD	Historic mean plus 2 standard deviations. Each value is calculated from historical analytical data for a specific analyte in a specific well.
IHSS	Individual Hazardous Substance Site
IMP	RFETS Integrated Monitoring Plan, which describes in general terms the components and objectives of the groundwater monitoring program, and how groundwater data will be collected, evaluated and reported. The IMP is updated yearly and contains the list of wells in the monitoring program. The IMP also specifies the chemical suites that groundwater samples will be analyzed for.
IMPBD	The RFETS IMP Background Document, which describes specifics of the groundwater monitoring program, and describes the well classes and how groundwater quality data will be collected, interpreted, and reported in compliance with RFCA.
K-H	Kaiser-Hill, LLC
LCS	Laboratory Control Sample. A type of QC sample, which originates in the analytical laboratory.
LC1, LC2	SWD identifies LCS samples with numbered codes, e.g. LC1.
LIC	Line-item-code (LIC) is assigned by ASD to identify specified analyte suites, analytical methods, and required detection limits.
MCL	Maximum Contaminant Level
ug/L	Microgram per liter.
mg/L	Milligram per liter.
MS	Matrix Spike, a QC sample.
MSD	Matrix Spike Duplicate sample. MS/MSD sample data may be used to determine both precision and analytical accuracy.
PARCC	Precision, Accuracy, Representativeness, Comparability and Completeness
PCB	polychlorinated biphenyl
PCE	tetrachloroethene

pCi/L	picoCurie per liter.
PQL	Practical Quantitation Limit is a type of analytical detection limit. The PQL is the lowest concentration for which the 95% confidence interval brackets the true concentration within 20%.
QAPP	Quality Assurance Program Plan
QC	Quality Control, as in a QC sample generated for quality control purposes.
RCRA	Resource Conservation and Recovery Act
RDL	A Required Detection Limit specified by ASD. A synonym of CRDL.
REAL	REAL is a SWD code identifying "primary" or "real" samples, as opposed to QC samples. In this report, REAL refers to data describing the primary groundwater sample collected at a well or building drain during a sampling event.
RFCA	Rocky Flats Cleanup Agreement
RFETS	Rocky Flats Environmental Technology Site
RIN	An identifying number assigned to a set of environmental samples by ASD.
Rinsate	A QC sample generated by pouring clean deionized water over or through sampling equipment, which has previously been decontaminated. Analysis of rinsate samples (RNS) may indicate cross-contamination due to incomplete or improper decontamination procedures.
RNS	A SWD code identifying data describing a rinsate sample.
RPD	Relative Percent Difference in measured concentrations between a groundwater sample and a duplicate groundwater sample collected in the field. RPDs are a measure of precision applied to non-radionuclide data.
SEP	The former Solar Evaporation Ponds, 207C, 207A, 207B north, central and south.
SOP	Standard Operating Procedure
SOW	Statement of Work
SUR	A SWD code indicating analytical data for surrogate compounds.
Surrogate Compound	Any of a set of distinctive compounds that do not occur in nature and are not normally found in environmental samples. Analytical procedures for VOA and

SVOA analysis often require one or more surrogates to be spiked into samples prior to their analysis, as a quality control check. SUR data are reported by the laboratory, and may be used in data validation.

SVOA	Semivolatile organic analyte.
SVOC	Semivolatile organic compound, a synonym for SVOA.
SWD	RFETS Soil Water Database maintained by ASD.
TCE	Trichloroethene
TDS	Total Dissolved Solids
Tier I	Analyte-specific action level originally defined by RFCA, updated by IMP
Tier II	10^{-2} of Tier I
TPU	Total Propagated Error
TRPH	Total Recoverable Petroleum Hydrocarbons
TSS	Total Suspended Solidss
VOA	Volatile Organic Analyte
VOC	Volatile Organic Compound, a synonym for VOA.
V&V	Validation and Verification of environmental quality data
Well Class	Monitoring wells at RFETS are classified into one or more of 8 well classes, which relate to groundwater monitoring objectives. For example, the Boundary Monitoring well class refers to wells used to monitor groundwater quality leaving the eastern RFETS boundary.
>=	Value on the left is greater than or equal to the value that follows the >= symbol
<=	Value on the left is less than or equal to the value that follows the <= symbol
>	Value on the left is greater than the value to the right of the > symbol.
<	Value on the left is less than the value to the right of the < symbol.

1 INTRODUCTION

The DOE, K-H, URS team has completed review of first calendar quarter 2004 (1Q2004) groundwater analytical data using groundwater action level criteria as described in RFCA Attachment 5 (K-H, 2000). This report is required by Section 3.4.B of Attachment 5 of the Final Rocky Flats Cleanup Agreement (RFCA) (EPA, CDPHE, DOE, 1996), and is described in the FY 2004 Integrated Monitoring Plan (IMP) (DOE, 2003a and 2003b). Groundwater sampling for 1Q2004 reflects the approval of the monitoring well list (CDPHE, Nov. 1996 and EPA, Nov. 1996), and the establishment in the IMP of semi-annual sampling frequencies for most well classes. Only RCRA monitoring wells are routinely sampled and reported each quarter. A portion of the wells will be sampled within a given quarter; the remaining wells are sampled in the following quarter as site conditions allow.

The report is organized into six sections. Section 1, Introduction, discusses changes made since the preceding report. Section 2 summarizes the methodology used to produce the report and defines the well classes. Water quality results for individual wells and Tier I and Tier II reportable occurrences are presented in Section 3. Maps and selected time-series plots are found at the end of Section 3. Required actions based on the current findings, and completed actions from previous quarterly reports are discussed in Section 4. A data quality assessment is presented in Section 5. References are in Section 6. Appendix A is a tabulation of groundwater quality data for the quarter.

Throughout the report, emphasis is placed on features that are different or noteworthy in comparison to previous quarterly monitoring reports. No summary or conclusions section is provided because the Quarterly RFCA Groundwater Monitoring Report is intended to be a data transmittal, rather than an interpretive report. Except for comparisons of groundwater data against action levels and a data quality assessment, geochemical and hydrologic interpretations are deferred to the 2004 Annual RFCA Groundwater Monitoring Report.

Twenty three (23) groundwater monitoring locations were visited for sampling in accordance with the IMP during 1Q2004, and are listed in Table 3-1 and Table 3-2. Twenty one of these were IMP monitoring locations, while 2 were sampled to meet non-IMP objectives. Non-IMP monitoring takes place at RFETS to meet various objectives, such as well abandonment or other special sampling. All groundwater sampling locations are shown on Figures 3-1 and 3-2 along with site features and the nitrate and composite VOC plume boundaries. The plume boundaries shown on these figures are from the 2001 Annual RFCA Groundwater Monitoring Report (K-H, 2002).

Excepting treatment system influent and effluent, all Water Monitoring and Compliance Program (WMCP) data available in SWD for the calendar quarter are included in the quarterly report irrespective of IMP-well class. In keeping with prior reports, building sump/drain locations, and drains associated with the Present Landfill may also be included in this report with monitoring well data. Sampling for

performance monitoring of groundwater treatment systems is addressed in a separate report that is issued annually.

The IMP Background Document states that downgradient RCRA wells will be reported quarterly in the same manner as Drainage Wells. Starting with the third quarter 2002 report, all RCRA wells (upgradient or downgradient) have been compared against action levels, and treated under the same rules as applied to Drainage Wells. This change has been made because some RCRA wells upgradient of the Present Landfill may be influenced by the nearby VOC plume that originates in the PU& D Yard.

In addition to monitoring wells cited in this report, a number of other water sampling locations are included: BS-865-2, 891COLWEL, SW13494, FD-559-561, FD-707-4, FD-774-1, FD-774-4, B371BAS, B371SUBBAS, SW085, SW099, and SW100. BS-865-2 is a footing drain outside Door #1 of Building 865. 891COLWEL is a pump-equipped collection well that collects water from the 881 Hillside above the former French Drain. Location SW13494 is a sump for the footing drain system of Building 881 and is located on the 881 Hillside. The "FD" locations are footing drains associated with buildings: B559, B707, and B774. B371BAS and B371SUBBAS are footing drains collecting groundwater from Buildings 371 and 374. SW085 is an outfall for Building 779, and is a non-IMP water sampling location. Sampling stations SW099 and SW100 are collection boxes associated with the groundwater intercept system for the Present Sanitary Landfill.

2 METHODS

Groundwater quality data (analytical data) generated by RFETS during first quarter 2004, were classified and evaluated as described below.

2.1 Data Processing

Data evaluated in this report were retrieved from the Soil and Water Database (SWD) and processed as follows:

- RFETS Groundwater analytical results for the quarter were uploaded from SWD into a local database. This local database and the queries used to process the data are archived on the Water Programs server.
- Database queries were written to examine the data and to identify potential problems such as incorrect concentration units, or concentration unit mismatches between the groundwater quality data and the action level tables to which these data were compared against.
- The dataset was examined for the potential presence of sample locations that are not relevant to the WMCP, such as tanks, treatment system influent and effluent, and most surface water stations. Data records outside the date range of the quarter, or pertaining to irrelevant locations are removed from the working dataset.
- Field and laboratory QC data were split into a set of separate data tables for more convenient use in the data quality assessment (DQA) presented in Section 5. Queries were also written to create and export suitable Excel tables for the written report.
- The DQA follows requirements set forth in the Quality Assurance Program Plan For The Groundwater Monitoring Program, Rocky Flats Environmental Technology Site (RMRS, 2001).
- The concentrations or activities of analytes in primary (REAL) and field duplicate (DUP) groundwater samples were screened against RFCA Tier I and Tier II action level framework (ALF) criteria, with the following exceptions.
 1. Non-detect results (with a "U" result qualifier, or UJ validation qualifier).
 2. Results rejected in validation or verification ("R" or "R1" qualified).

3. Surrogate compounds added by the laboratory for analytical quality control.

- Note that the RFCA action level framework states that if the practical quantitation limit (PQL) of an analyte is higher (less stringent) than the action level, then the PQL is used as the compliance threshold (CDPHE, DOE, and EPA, 5/28/03, Final RFCA Attachment 5, p. 5-30). Therefore, this quarterly report actually compares the detected activities or concentrations against the higher of either the PQL or the groundwater action level.
- Results from Boundary, Drainage, Plume Definition, Plume Extent, and RCRA wells were classified as reportable or non-reportable. Methods for making these determinations are defined below. Criteria for the determinations are also found in the later discussion of IMP Well Classes.
- Plume Degradation and RCRA monitoring data are evaluated in the Annual Groundwater Monitoring Report. Performance monitoring wells, although screened against the action level criteria, are not subject to the reportable/non-reportable classification.
- Analytical baseline values for Decontamination and Decommissioning (D&D) wells have not been determined at this time (except for Building 886 D&D wells).
- Calculated ratios of the analyzed concentrations or activities, divided by the Tier II action levels, PQLs, background M2SDs, or by the historic M2SDs, are used to identify IMP reportable results. Reportable results are defined in Section 2.2, IMP Well Class descriptions. Note that "M2SD" indicates that two sample standard deviations have been added to the background mean or to a historic mean concentration.
- Well-specific historic M2SDs have previously been calculated for individual analytes in groundwater from wells with five or more sampling events during the years 1991 to 1995. However, this methodology prevents the calculation of baseline M2SDs for wells installed since about 1994. RFETS plans to re-compute the historic M2SDs for all analytes in all wells for which at least 5 data points are available more recently than January 1, 1991. Data for the first 5 sampling events for each analyte in each well will be used to compute the M2SDs.
- If no historic M2SD is available for an analyte in a well, an evaluation of the concentration of the analyte over time may be made by visual inspection of the associated trend plot if sufficient data are available.
- Background values have been established for most metals, radionuclides, and water quality Parameters. Therefore, when ALF values have been exceeded, the analytical data are compared with the Site-wide background M2SD and with the historic M2SD values. Note that the historic

M2SD values are well- and analyte-specific, in contrast to the background M2SDs, which are analyte-specific for groundwater from the Upper Hydrostratigraphic Unit (UHSU).

- Background M2SD values for metals, water quality parameters, americium-241, plutonium-239/240, uranium-233/234, uranium-235, and uranium-238, tritium, and strontium-89/90 have been taken from the RFETS Background Geochemical Characterization Report (EG&G, 1993). A background value for neptunium-237 has not been determined.
- Manmade volatile organic compounds (VOCs) and polychlorinated biphenyls have no background concentrations at RFETS, they are simply compared to available historic M2SDs.

2.2 IMP Well Class Definitions

The RFETS groundwater monitoring network, as defined in the FY 2004 IMP (DOE, 2003a and 2003b), contains eight categories of monitoring wells. The IMP and IMPBD establish decision rules for determining Tier I and Tier II reportable results for groundwater sampled from these wells and analyzed for potential contamination. The well types and decision rules for data reporting are defined below:

2.2.1 Plume Definition Monitoring Wells

Plume Definition wells (well class "PD" in tables within this report) are located within known contaminant plumes and contain one or more groundwater analyte concentrations that are greater than Tier II action levels. However, many of these groundwater concentrations are below the Tier I action levels established in the ALF.

A reportable result occurs when the measured concentration exceeds a Tier I action level, and exceeds the background M2SD, and exceeds a historic M2SD. To be conservative, this quarterly report considers the result reportable if Tier I is exceeded in the absence of both background M2SD and historic M2SD. In the absence of only one of the M2SDs, the result is reportable if Tier I is exceeded and the available M2SD is also exceeded. If the result is reportable, the required action is to reclassify the well as a "Tier I reportable result well". Whether reportable events, or not, all constituents that exceed Tier I are tabulated in the Quarterly RFCA Groundwater Monitoring Report.

If a well becomes a Tier I reportable result well, the next Annual RFCA Groundwater Monitoring Report will review historic data for the well to determine if the well should be prioritized for further evaluation or remediation based on potential impacts to surface water. If the data show an increasing concentration trend over a two-year period, or the well has not been previously prioritized for evaluation, then the annual report will show the updated priority of the well for evaluation or remediation.

2.2.2 Plume Extent Monitoring Wells

Plume Extent wells are located at the edges of known groundwater-contaminant plumes, along pathways to surface water. These wells monitor for an increase in concentrations that may result in future impacts to surface water. A reportable result occurs if the measured concentration exceeds the Tier II action level and the background M2SD value. If there have not been historic reportable results, or the recent concentration exceeds the historic M2SD concentration in the well, the required action is to initiate monthly sampling. Under monthly sampling, if action levels are exceeded during three consecutive months, then stakeholders are notified via a subsequent Quarterly RFCA Groundwater Monitoring Report, and the possible impacts to surface water are evaluated in the Annual RFCA Groundwater Monitoring Report. Plume Extent wells are identified by the well class letters "PE" in tables in this report.

2.2.3 Drainage Monitoring Wells

These wells are located in stream drainages downgradient of contaminant plumes. They have the same programmatic requirements under the IMP as Plume Extent wells. A reportable result occurs if a measured concentration exceeds a Tier II action level and the background M2SD value. If there have not been historic reportable results, or the recent concentration exceeds the historic M2SD concentration in the well, the required action is to initiate monthly sampling. Under monthly sampling, if action levels are exceeded for three consecutive months, then stakeholders are notified via a subsequent Quarterly RFCA Groundwater Monitoring Report, and the possible impacts to surface water are evaluated in the Annual RFCA Groundwater Monitoring Report. Drainage wells are identified by the well class letter "D" in tables in this report.

2.2.4 Boundary Monitoring Wells

These wells monitor groundwater leaving the eastern Site boundary through the alluvial deposits beneath the stream. A reportable result occurs if a measured analyte concentration in groundwater exceeds a Tier II action level and the background M2SD value. If there have not been historic reportable results, or the recent concentration exceeds the historic M2SD concentration in the well, the required action is to initiate monthly sampling. Under monthly sampling, if action levels are exceeded for three consecutive months, then stakeholders are notified via a subsequent Quarterly RFCA Groundwater Monitoring Report, and the possible impacts to surface water are evaluated in the Annual RFCA Groundwater Monitoring Report. Boundary wells are identified by the well class letter "B" in tables in this report.

2.2.5 D&D Monitoring Wells

These wells monitor for releases to groundwater from D&D activities. Baselines will be established for D&D groundwater monitoring locations during writing of the 2003 Annual RFCA Groundwater Monitoring Report. Criteria have not yet been established for classifying D&D groundwater concentrations as non-reportable, or reportable, except for Building 886.

A reportable result would occur when a measured concentration downgradient of the building(s) exceeds the M2SD of the established baseline concentration. Given a reportable result, the required action is to inform appropriate parties and initiate an evaluation of the situation. D&D groundwater data are evaluated in the Annual RFCA Groundwater Monitoring Reports. However, any constituents that exceed RFCA action levels in D&D groundwater wells are tabulated in the Quarterly RFCA Groundwater Monitoring Reports. D&D monitoring wells are identified by the well class symbol "DD" in tables in this report.

2.2.6 Performance Monitoring Wells

These wells monitor the effect of a remediation or source removal action, as required in the ALF. If an increasing trend in the concentration of a contaminant is noted, then the appropriate parties are notified and an evaluation of the situation is initiated. Groundwater concentration trends are evaluated in the Annual RFCA Groundwater Monitoring Reports. However, any constituents that exceed RFCA action levels in Performance Monitoring wells are tabulated in the Quarterly RFCA Groundwater Monitoring Reports. These wells are identified by the well class symbol "PM" in tables in this report.

2.2.7 RCRA Monitoring Wells

RCRA wells monitor water quality upgradient and downgradient of a RCRA unit. If the mean concentration of a contaminant in a downgradient well exceeds the mean concentration in upgradient wells at statistically significant levels, and the downgradient concentration at the well shows a statistically significant upward trend with time, a report will be made to appropriate agencies and an investigation will be initiated to determine possible causes. A RCRA evaluation will be performed in the Annual RFCA Groundwater Monitoring Report.

The quarterly RFCA monitoring reports treat analytical results from RCRA wells in the same manner as Drainage Wells. A reportable result for a RCRA well occurs if a measured concentration exceeds a Tier II action level and the background M2SD value. When there have not been historic reportable results, or a value exceeds the historic M2SD concentration in the well when there have been historic reportable results of Tier II action levels, the required action is to initiate monthly sampling. If action levels are exceeded for three consecutive months, by the above criteria, then RFETS stakeholders are notified in a

subsequent Quarterly RFCA Groundwater Monitoring Report. RCRA monitoring wells are identified by "R" in tables of this report.

2.2.8 Plume Degradation and Other Monitoring Wells

Plume Degradation wells are assumed to contain contaminated groundwater and are used to assess if natural geochemical processes are an effective alternative to groundwater remediation. Degradation data are reviewed in the Annual RFCA Groundwater Monitoring Reports to determine if sufficient data have been collected to support remedial decision making. Although these wells do not have reportable results as defined by the IMPBD, any constituents that exceed RFCA action levels in Plume Degradation wells are tabulated in the Quarterly RFCA Groundwater Monitoring Report. Plume Degradation wells are identified by the well class symbol "PA" in this report.

Numerous wells exist at RFETS that are not regularly monitored as a part of the IMP-driven Groundwater Monitoring Program. On an as-needed basis, groundwater may be sampled from some of these "Non-IMP" wells to satisfy specific project-driven data quality objectives. Non-IMP wells are identified by the well class symbol "N" in tables of this report.

The Well Abandonment Program (WARP) at RFETS often collects a final groundwater quality sample prior to abandoning a well. This is generally done if no recent data are available from a well. Groundwater quality samples collected by WARP are designated as well class "A" in tables of this report.

3 WATER QUALITY RESULTS

Groundwater Monitoring Program personnel at RFETS attempted to collect water quality samples from 23 wells, building drains, and sumps during 1Q2004. This work was performed as prescribed in the IMP (DOE, 2003a and 2003b). The monitoring program currently includes 177 IMP wells. Additional non-IMP wells are included in 1Q2004 monitoring. Tables 3-1 and 3-2 list the IMP groundwater monitoring locations visited and indicate sampling success or failure by analyte suite.

During the quarter, a total of 13 sampling locations produced sufficient groundwater for collection of either the full requested sample suite, or a partial sample suite. However, 5 locations remained completely dry during the quarter. Most dry locations were visited several times in attempts to collect the required water samples. Tables 3-1 and 3-2 list the wells sampled and the analytes or analytical suites analyzed during 1Q2004.

The overall size of the dataset for 1Q2004 was 2,563 analytical records (including laboratory QA/QC). This is fewer than the 16,692 data records of the previous quarter.

Figures 3-1 and 3-2 show the distribution of groundwater sampling locations visited at RFETS during the first quarter, in relation to nitrate and composite VOC plume boundaries (from the 2001 Annual RFCA Groundwater Monitoring Report). Figure 3-1 covers a larger area including the boundary wells along Indiana Street. Figure 3-2 is an enlargement of the central plant area. These figures show the well locations in terms of 6 color-coded categories, as follows.

- Wells that were dry during the quarter, permitting no sampling (black open circles).
- Wells from which groundwater was sampled, and all analytes in the water were less than Tier II action levels (green-filled circles).
- Wells for which one or more groundwater analyte concentrations was >Tier II, but none were reportable (yellow-filled circles).
- Wells in which one or more groundwater analytes triggered a reportable Tier II event (yellow-filled squares).
- Wells for which one or more groundwater analyte concentrations was >Tier I, but none were reportable (red-filled circles).
- Wells in which one or more groundwater analytes triggered a reportable Tier I event (red-filled squares).

The following text sections discuss analyte concentrations greater than Tier II action levels (Table 3-3); reportable Tier II events (Table 3-4); analyte concentrations greater than Tier I action levels (Table 3-5); and reportable Tier I events (Table 3-6).

3.1 Groundwater Analyte Concentrations Greater Than Tier II

Table 3-3 presents analytical data for 34 "Tier II events" in which measured chemical concentrations (or activities) in groundwater samples were greater than the corresponding RFCA Tier II action levels (or PQLs). Groundwater in 7 different wells or drains contained one or more of these Tier II events. Groundwater from RCRA wells accounted for 16 (or 47%) of the 34 events listed in Table 3-3. The numbers of Tier II events in other well classes are as follows: Plume Extent (8), Plume Definition (6), and Performance Monitoring (4).

The most frequently observed analytes in the 34 Tier II events (Table 3-3) are U-233/234 (5 events), U-235 (5 events), U-238 (4 events), selenium (4 events), and nitrate/nitrite (4 events).

The database equivalent of Table 3-3 may be used to evaluate reportable and non-reportable results through examination of the Tier II, background, and historic ratios described earlier. Tier II, background, and historic ratios may also be used to help select analytes and wells which are of interest for Site remediation, but which may not be reportable under IMP criteria.

3.2 Tier II Reportable Results

Table 3-4 lists 16 reportable Tier II events that have been identified from examination of 1Q2004 groundwater quality data. Note that this table is somewhat redundant because it includes not only target analyses, but some lab duplicate analysis records. These Tier II events do not include the Tier I events discussed later in Sections 3.3 and 3.4. Groundwater from 3 wells or drains contained one or more of these reportable events.

Eleven of the 16 reportable Tier II results were in groundwater from RCRA wells 70393 and B206989, while 5 were from Plume Extent Well 1786.

Plume Extent wells are located at the edges of known contaminant plumes in RFETS groundwater, therefore, constituents that exceed Tier II action levels are expected to occur in these wells. The most notable result may be groundwater from Well 1786 which had a nitrate/nitrite concentration of 504 MG/L during January 2004. Well 1786 is located near the discharge gallery below the nitrate and uranium plume leaving the former solar evaporation ponds (SEP) area.

RCRA Well B206989 is located downgradient (east) of the Present Landfill and East Landfill Pond. Groundwater from this well contained reportable concentrations of nitrate/nitrite, Li, Se, sulfate, and U-235. The sulfate concentration was 2,880 mg/L on 1/15/04.

Time series plots (starting with Figure 3-3) are found at the end of Section 3 for the Tier II reportable events tabulated in Table 3-4. Each plot shows how the concentration of a specific analyte varied throughout the water sampling history of a monitoring well. A trend plot is not presented if there are fewer than three data points from which to establish a concentration trend for the analyte.

3.3 Groundwater Analyte Concentrations Greater Than Tier I

Table 3-5 lists data for 4 "Tier I events" in which 1Q2004 groundwater analyte concentrations (or activities) were found to be greater than the corresponding Tier I action levels. Actually only two of these are events associated with the primary sample, and the other two are for laboratory duplicate analyses. Groundwater collected from Performance Monitoring Well 70099 contained these Tier I events during water sampling on 2/18/04.

The Tier I events are for uranium isotopes U-238 and U-233,-234 associated with the SEP nitrate and uranium plume at Well 70099. This well is located north of SEP Pond 207A.

3.4 Tier I Reportable Results

During 1Q2004, there were no reportable Tier I groundwater events. When there are reportable events, and if at least three data points are available, the historical concentrations of Tier I reportable analytes in RFETS groundwater are plotted. These are included with the Tier II trend charts which begin at Figure 3-3.

Table 3-1. Groundwater Monitoring Locations and Sample Collection Summary.

Location	VOAs	Metals	Radionuclides				Water Quality Parameters			
			Pu/Am	U-Isotope	Tritium	Sr-89/90	Nitrate/Nitrite	TDS	Sulfate	Fluoride
0487	S						S			
01697		S**								
06491				D**						
1786		S**		S						
10394		S**								
4087	D	D		D			D		D	D
52894	D	D		D			D		D	D
52994	D	D		D			D		D	D
5587				D**						
5887	S	S		S			S		S	S
70099				S			S			
70193	S	S		S			S		S	S
70299				S			S			
70393	S	S		S			S		S	S
70493	S	S		S			S		S	S
75992		D**								
891 COLWEL	S									
95503	S									
99603	S			I						
B206989	S	S		S			S		S	S
ET Eff.	S**									
ET Inf.	S**									
P416689		S**								
Table Notes:										
S = Sampled for analyte										
NS = Not sampled for analyte										
D = Well did not recharge after purging, no samples collected										
I = Insufficient water to collect this sample										
* = Additional Samples Collected										
** = Monthly Sample Collection for specific analyte										

Table 3-2. Groundwater Sample Collection Summary – Additional Analytes.

Location	Additional Analytes												
	Methane Ethene	PCBs	Sulfide	Chloride	Nitrate	TOC	Cyanide	Cs-137	Np-237	Alkalinity	TPH	Silica	Ortho Phosphate
No additional analytes were sampled or analyzed this quarter.													
Table Notes:													
S = Sampled for analyte													
NS = Not sampled for analyte													
D = Well did not recharge after purging, no samples collected													
I = Insufficient water to collect this sample													
* = Additional Samples Collected													
** = Monthly Sample Collection for specific analyte													

Tale 3-3. Groundwater Analyte Concentrations Greater Than Tier II Action Levels.

Location	Sample Date	Sample Number	Analyte	QC Code	Result Type	Result	Error	Units	Result Qualifier	Validation	Detection Limit	Dilution	Filtered	Tier II	Background	Historic M2SD	Ratio To Tier II	Ratio To Background	Ratio To Historic M2SD	Well Class	Other Class
0487	01/13/04	GW11253ST	CARBON TETRACHLORIDE	REAL	TR1	14.4		UG/L		VI		1	NO	5		325.7	2.88		0.04	PD	
0487	01/13/04	GW11253ST	CARBON TETRACHLORIDE	REAL	DL1	12		UG/L	D	I		5	NO	5		325.7	2.40		0.04	PD	
0487	01/13/04	GW11253ST	TETRACHLOROETHENE	REAL	TR1	5.3		UG/L		VI		1	NO	5		74.75	1.06		0.07	PD	
0487	01/13/04	GW11253ST	TETRACHLOROETHENE	REAL	DL1	5		UG/L	D	I		5	NO	5		74.75	1.00		0.07	PD	
0487	01/13/04	GW11253ST	TRICHLOROETHENE	REAL	TR1	181		UG/L	E	I		1	NO	5		1330.06	36.20		0.14	PD	
0487	01/13/04	GW11253ST	TRICHLOROETHENE	REAL	DL1	173		UG/L	D	VI		5	NO	5		1330.06	34.60		0.13	PD	
1786	01/09/04	GW11250ST	NITRATE/NITRITE	REAL	TR2	504000		UG/L		VI	3000	300	NO	10000	4664	689310	50.40	108.06	0.73	PE	PM
1786	01/09/04	GW11250ST	SELENIUM	REAL	TR1	207		UG/L		VI		1	NO	50	43.72	245.7	4.14	4.73	0.84	PE	PM
1786	01/09/04	GW11250ST	URANIUM-233,-234	REAL	TR1	36	5.72	PCI/L		VI			NO	1.06	57.8		33.96	0.62		PE	PM
1786	01/09/04	GW11250ST	URANIUM-235	REAL	TR1	1.64	.662	PCI/L		VI			NO	1.01	1.48	1.99	1.62	1.11	0.82	PE	PM
1786	01/09/04	GW11250ST	URANIUM-238	REAL	TR1	25.1	4.17	PCI/L		VI			NO	0.768	40.17		32.68	0.62		PE	PM
1786	02/12/04	GW11265ST	SELENIUM	REAL	LD1	201		UG/L		I		1	NO	50	43.72	245.7	4.02	4.60	0.82	PE	PM
1786	02/12/04	GW11265ST	SELENIUM	REAL	TR1	190		UG/L		VI		1	NO	50	43.72	245.7	3.80	4.35	0.77	PE	PM
70099	02/18/04	GW11251ST	URANIUM-235	REAL	TR1	12.5	2.77	PCI/L		VI			YES	1.01	1.48		12.38	8.45		PM	
70099	02/18/04	GW11251ST	URANIUM-235	REAL	LD1	8.43	1.82	PCI/L		I			YES	1.01	1.48		8.35	5.70		PM	
70299	01/07/04	GW11252ST	URANIUM-233,-234	REAL	TR1	4.26	1.02	PCI/L		VI			YES	1.06	57.8		4.02	0.07		PM	
70299	01/07/04	GW11252ST	URANIUM-238	REAL	TR1	2.84	.784	PCI/L		VI			YES	0.768	40.17		3.70	0.07		PM	
70393	01/12/04	GW11262ST	1,1-DICHLOROETHENE	REAL	TR1	7.7		UG/L		VI		1	NO	7		21.16	1.10		0.36	R	
70393	01/12/04	GW11262ST	TRICHLOROETHENE	REAL	TR1	15.4		UG/L		VI		1	NO	5		36.33	3.08		0.42	R	
70393	01/12/04	GW11263ST	URANIUM-233,-234	REAL	TR1	1.93	.692	PCI/L		V			YES	1.06	57.8		1.82	0.03		R	
B206989	01/07/04	GW11264ST	LITHIUM	REAL	LD1	1220		UG/L		I		1	YES	730	142.55		1.67	8.56		R	

Location	Sample Date	Sample Number	Analyte	QC Code	Result Type	Result	Error	Units	Result Qualifier	Validation	Detection Limit	Dilution	Filtered	Tier II	Background	Historic M2SD	Ratio To Tier II	Ratio To Background	Ratio To Historic M2SD	Well Class	Other Class
B206989	01/07/04	GW11264ST	LITHIUM	REAL	TR1	1230		UG/L		V1		1	YES	730	142.55		1.68	8.63		R	
B206989	01/07/04	GW11264ST	NITRATE/NITRITE	REAL	TR2	34000		UG/L		V1	500	50	NO	10000	4664	75350	3.40	7.29	0.45	R	
B206989	01/07/04	GW11264ST	NITRATE/NITRITE	REAL	LD2	33500		UG/L		1	500	50	NO	10000	4664	75350	3.35	7.18	0.44	R	
B206989	01/07/04	GW11264ST	NITRATE/NITRITE	REAL	LD1	33500		UG/L		1	500	50		10000	4664	75350	3.35	7.18	0.44	R	
B206989	01/07/04	GW11264ST	SELENIUM	REAL	TR1	325		UG/L		V1		1	YES	50	43.72		6.50	7.43		R	
B206989	01/15/04	GW11264ST	SULFATE	REAL	TR1	2880000		UG/L		V1	19300	100	NO	500000	435600		5.76	6.61		R	
B206989	01/07/04	GW11264ST	URANIUM-233,-234	REAL	TR1	49.5	7.63	PCI/L		V1			YES	1.06	57.8		46.70	0.86		R	
B206989	01/07/04	GW11264ST	URANIUM-233,-234	REAL	LD1	49.9	6.94	PCI/L		1			YES	1.06	57.8		47.08	0.86		R	
B206989	01/07/04	GW11264ST	URANIUM-235	REAL	TR1	2.74	.886	PCI/L		V1			YES	1.01	1.48		2.71	1.85		R	
B206989	01/07/04	GW11264ST	URANIUM-235	REAL	LD1	1.96	.683	PCI/L		1			YES	1.01	1.48		1.94	1.32		R	
B206989	01/07/04	GW11264ST	URANIUM-238	REAL	TR1	32	5.16	PCI/L		V1			YES	0.768	40.17		41.67	0.80		R	
B206989	01/07/04	GW11264ST	URANIUM-238	REAL	LD1	34.7	5.03	PCI/L		1			YES	0.768	40.17		45.18	0.86		R	
P416689	03/16/04	GW11282ST	NICKEL	REAL	TR1	140		UG/L		V1		1	YES	140	21.37		1.00	6.55		PE	

Table 3-4. Reportable Tier II Groundwater Analytes.

Location	Sample Date	Sample Number	Analyte	QC Code	Result Type	Result	Error	Units	Result Qualifier	Validation	Detection Limit	Dilution	Filtered	Tier II	Background	Historic M2SD	Ratio To Tier II	Ratio To Background	Ratio To Historic M2SD	Well Class	Other Class
1786	01/09/04	GW11250ST	NITRATE/NITRITE	REAL	TR2	504000		UG/L		V1	3000	300	NO	10000	4664	689310	50.40	108.06	0.73	PE	PM
1786	01/09/04	GW11250ST	SELENIUM	REAL	TR1	207		UG/L		V1		1	NO	50	43.72	245.7	4.14	4.73	0.84	PE	PM
1786	01/09/04	GW11250ST	URANIUM-235	REAL	TR1	1.64	.662	PCI/L		V1			NO	1.01	1.48	1.99	1.62	1.11	0.82	PE	PM
1786	02/12/04	GW11265ST	SELENIUM	REAL	LD1	201		UG/L		1		1	NO	50	43.72	245.7	4.02	4.60	0.82	PE	PM
1786	02/12/04	GW11265ST	SELENIUM	REAL	TR1	190		UG/L		V1		1	NO	50	43.72	245.7	3.80	4.35	0.77	PE	PM
70393	01/12/04	GW11262ST	1,1-DICHLOROETHENE	REAL	TR1	7.7		UG/L		V1		1	NO	7		21.16	1.10		0.36	R	
70393	01/12/04	GW11262ST	TRICHLOROETHENE	REAL	TR1	15.4		UG/L		V1		1	NO	5		36.33	3.08		0.42	R	
B206989	01/07/04	GW11264ST	LITHIUM	REAL	TR1	1230		UG/L		V1		1	YES	730	142.55		1.68	8.63		R	
B206989	01/07/04	GW11264ST	LITHIUM	REAL	LD1	1220		UG/L		1		1	YES	730	142.55		1.67	8.56		R	
B206989	01/07/04	GW11264ST	NITRATE/NITRITE	REAL	LD2	33500		UG/L		1	500	50	NO	10000	4664	75350	3.35	7.18	0.44	R	
B206989	01/07/04	GW11264ST	NITRATE/NITRITE	REAL	LD1	33500		UG/L		1	500	50		10000	4664	75350	3.35	7.18	0.44	R	
B206989	01/07/04	GW11264ST	NITRATE/NITRITE	REAL	TR2	34000		UG/L		V1	500	50	NO	10000	4664	75350	3.40	7.29	0.45	R	
B206989	01/07/04	GW11264ST	SELENIUM	REAL	TR1	325		UG/L		V1		1	YES	50	43.72		6.50	7.43		R	
B206989	01/15/04	GW11264ST	SULFATE	REAL	TR1	2880000		UG/L		V1	19300	100	NO	500000	435600		5.76	6.61		R	
B206989	01/07/04	GW11264ST	URANIUM-235	REAL	LD1	1.96	.683	PCI/L		1			YES	1.01	1.48		1.94	1.32		R	
B206989	01/07/04	GW11264ST	URANIUM-235	REAL	TR1	2.74	.886	PCI/L		V1			YES	1.01	1.48		2.71	1.85		R	

Table 3-5. Groundwater Analytes Greater than Tier I Action Levels.

Location	Sample Date	Sample Number	Analyte	QC Code	Result Type	Result	Error	Units	Result Qualifier	Validation	Detection Limit	Dilution	Filtered	Tier II	Background	Historic M2SD	Ratio To Tier II	Ratio To Background	Ratio To Historic M2SD	Well Class	Other Class
70099	02/18/04	GW11251ST	URANIUM-233,-234	REAL	LD1	121	20.3	PCI/L		1			YES	106	57.8		1.14	2.09		PM	
70099	02/18/04	GW11251ST	URANIUM-233,-234	REAL	TR1	119	21.7	PCI/L		V1			YES	106	57.8		1.12	2.06		PM	
70099	02/18/04	GW11251ST	URANIUM-238	REAL	LD1	87	14.7	PCI/L		1			YES	76.8	40.17		1.13	2.17		PM	
70099	02/18/04	GW11251ST	URANIUM-238	REAL	TR1	81.9	15.1	PCI/L		V1			YES	76.8	40.17		1.07	2.04		PM	

Table 3-6. Reportable Tier I Groundwater Analytes.

Location	Sample Date	Sample Number	Analyte	QC Code	Result Type	Result	Error	Units	Result Qualifier	Validation	Detection Limit	Dilution	Filtered	Tier II	Background	Historic M2SD	Ratio To Tier II	Ratio To Background	Ratio To Historic M2SD	Well Class	Other Class
No groundwater samples had reportable constituent concentrations greater than Tier I																					

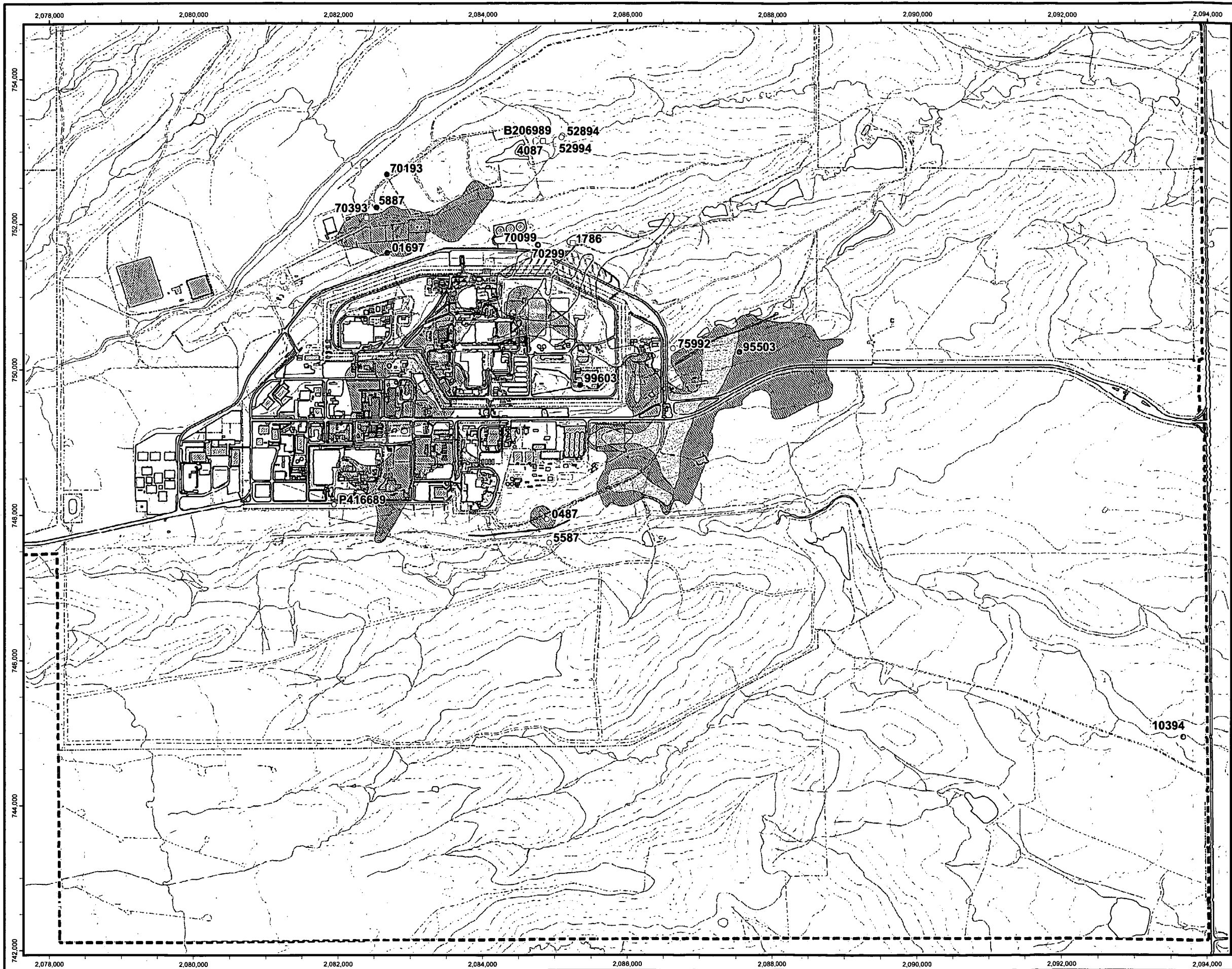


Figure 3-1
Groundwater Monitoring Well
Location Map
First Quarter, 2004

Well Key

- Reportable Tier I Well
- Well with Groundwater above Tier I
- Reportable Tier II Well
- Well with Groundwater above Tier II
- Well without Exceedances
- Dry Well

Plume Key

- Composite VOC Groundwater Plume (100 x MCL)
- Composite VOC Groundwater Plume (concentration equal to MCL)
- ND
- 100 x Nitrate Standard (1000 mg/l)
- Nitrate Standard (10 mg/l)

Standard Map Features

- Building or other structure
- Demolished building or other structure
- Lake or pond
- Stream, ditch, or other drainage feature
- Fence or other barrier
- Paved road
- Dirt road
- Topographic Contour (20-foot)
- Rocky Flats Environmental Technology Site boundary

Plume Reference - SSOC, 2002, Final 2001 Annual RFCA Groundwater Monitoring Report



Scale = 1 : 15,600
1 inch represents 1,300 feet



State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD 27

U.S. Department of Energy
Rocky Flats Environmental Technology Site

Prepared by:



Prepared for:



May 13, 2004

\\nsw\project\2004\04-0005\groundwater\report\fig3-1a map.mxd

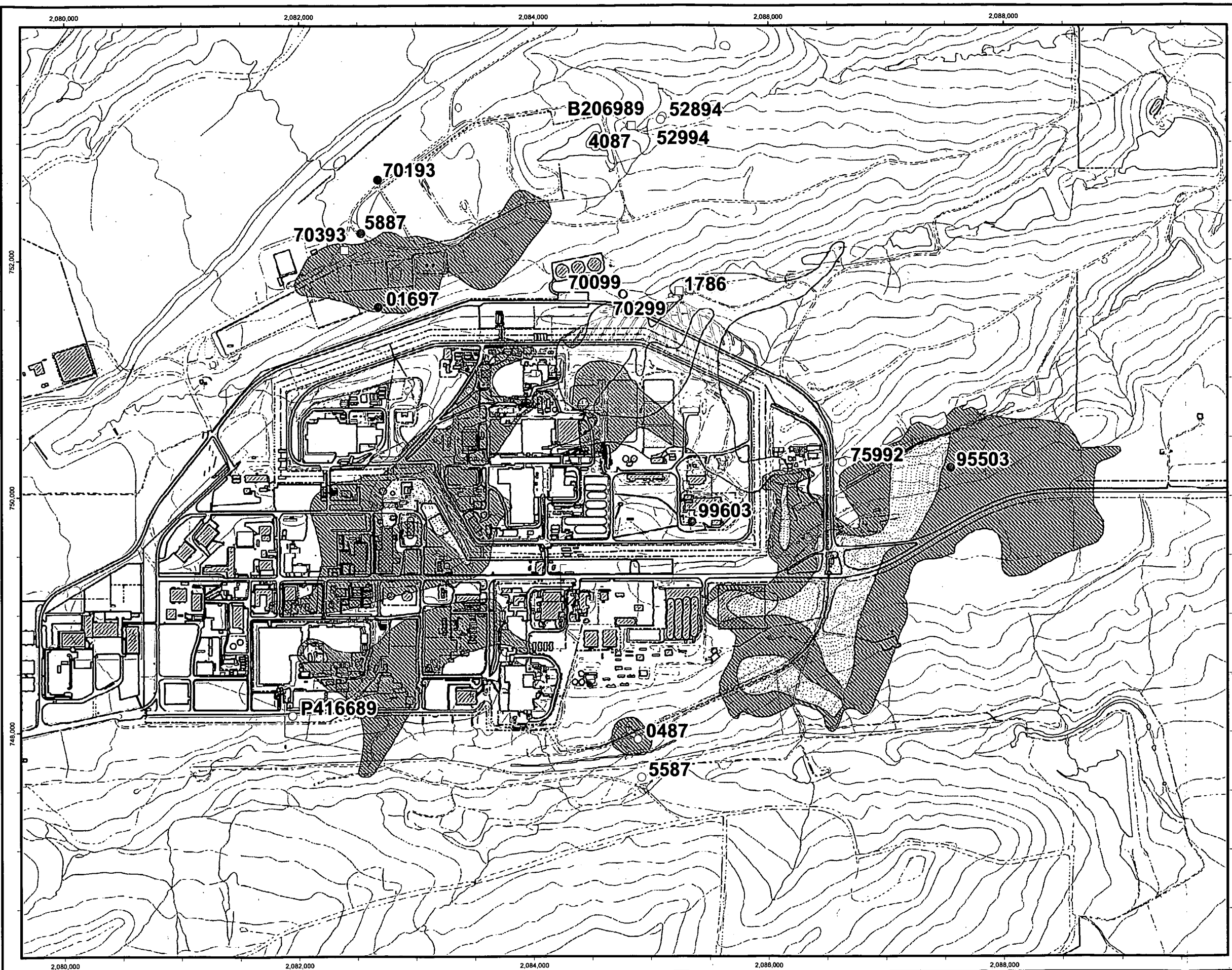


Figure 3-2

Groundwater Monitoring Well
Location Map

Industrial Area & Environs
First Quarter, 2004

Well Key

- Reportable Tier I Well
- Well with Groundwater above Tier I
- Reportable Tier II Well
- Well with Groundwater above Tier II
- Well without Exceedances
- Dry Well

Plume Key

- Composite VOC Groundwater Plume (100 x MCL)
- Composite VOC Groundwater Plume (concentration equal to MCL)
- ND
- 100 x Nitrate Standard (1000 mg/l)
- Nitrate Standard (10 mg/l)

Standard Map Features

- Building or other structure
- Demolished building or other structure
- Lake or pond
- Stream, ditch, or other drainage feature
- Fence or other barrier
- Paved road
- Dirt road
- Topographic Contour (20-foot)
- Rocky Flats Environmental Technology Site boundary

Plume Reference - SSOC, 2002, Final 2001 Annual RFCA
Groundwater Monitoring Report



Scale = 1 : 9,600
1 inch represents 800 feet



State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD 27

U.S. Department of Energy
Rocky Flats Environmental Technology Site

Prepared by:

URS

Prepared for:

KAISER-HILL

May 13, 2004

NT-SW-2004-04-0005 Groundwater Report Figure 3-2 Map.mxd

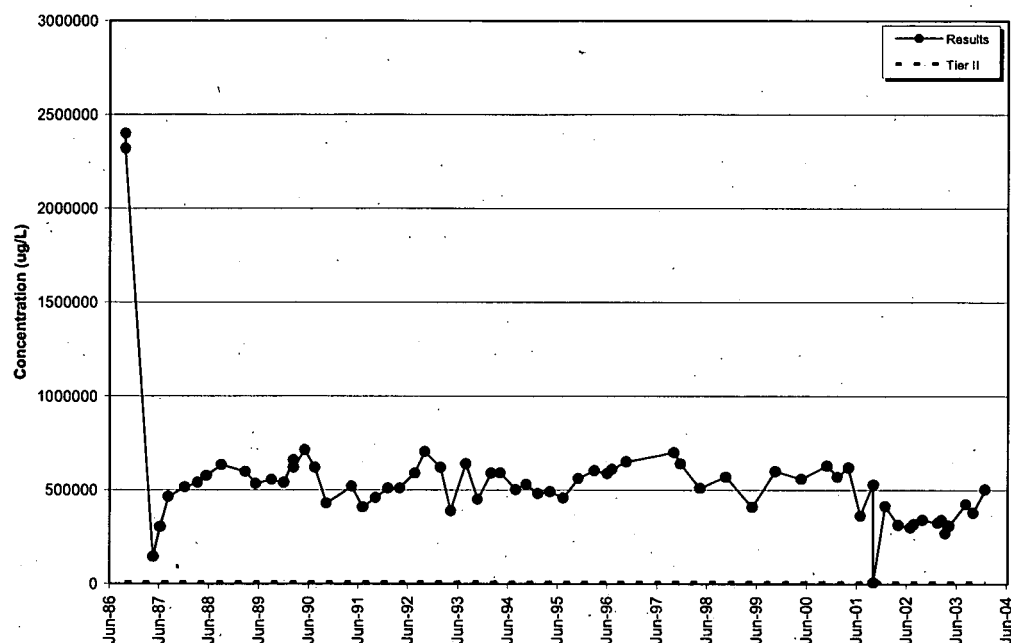


Figure 3-3. Nitrate/Nitrite Trend Plot for Well 1786.

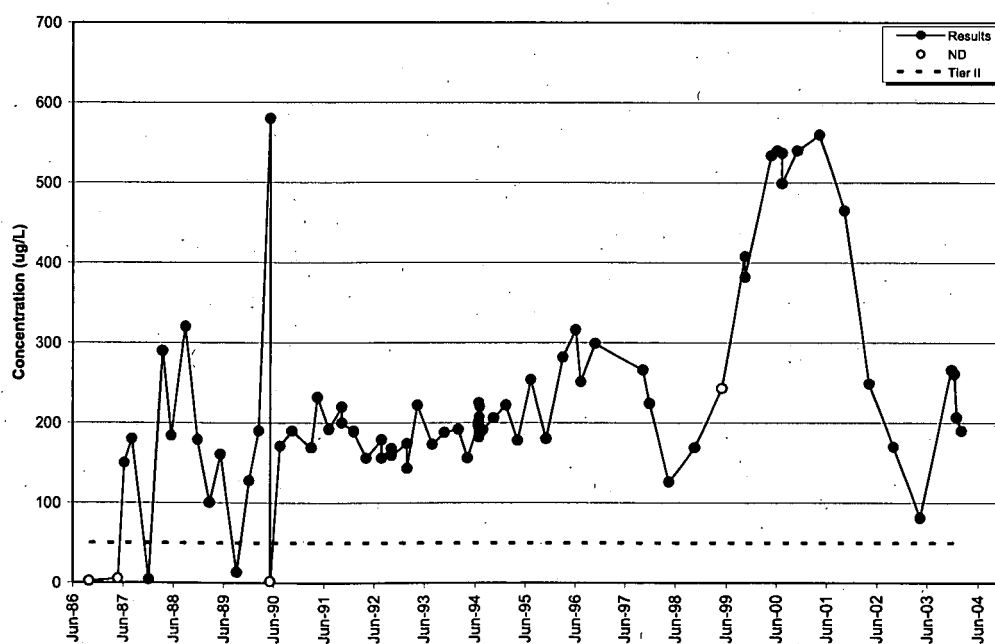


Figure 3-4. Selenium Trend Plot for Well 1786.

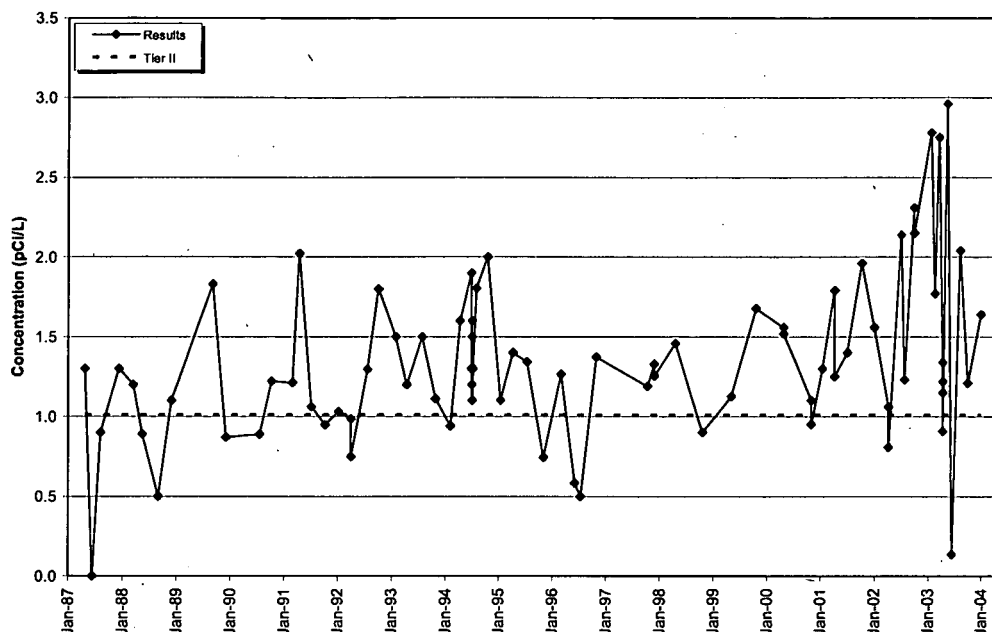


Figure 3-5. Uranium-235 Trend Plot for Well 1786.

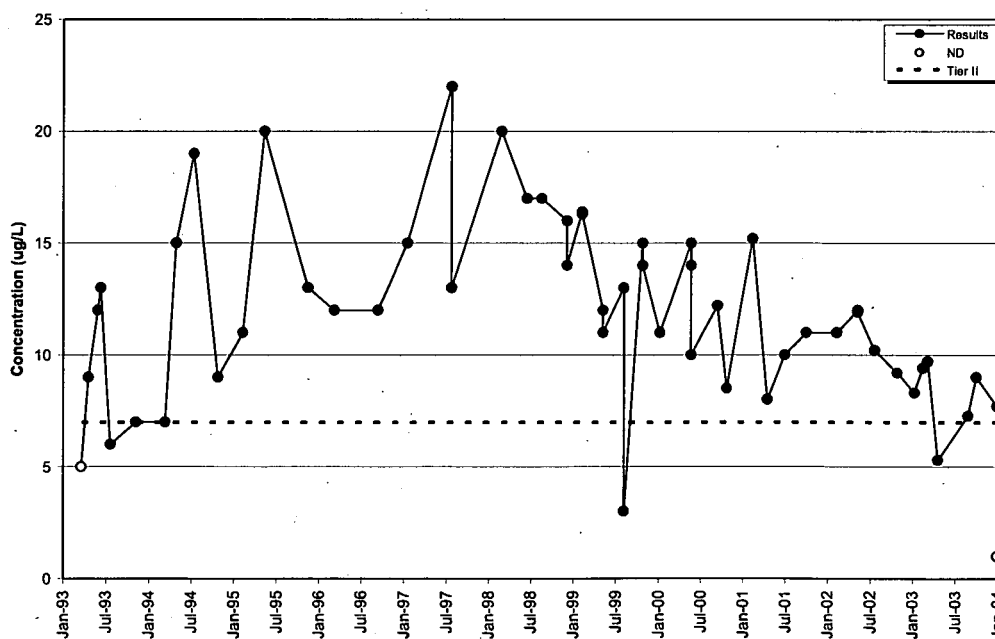


Figure 3-6. 1,1-Dichloroethene Trend Plot for Well 70393.

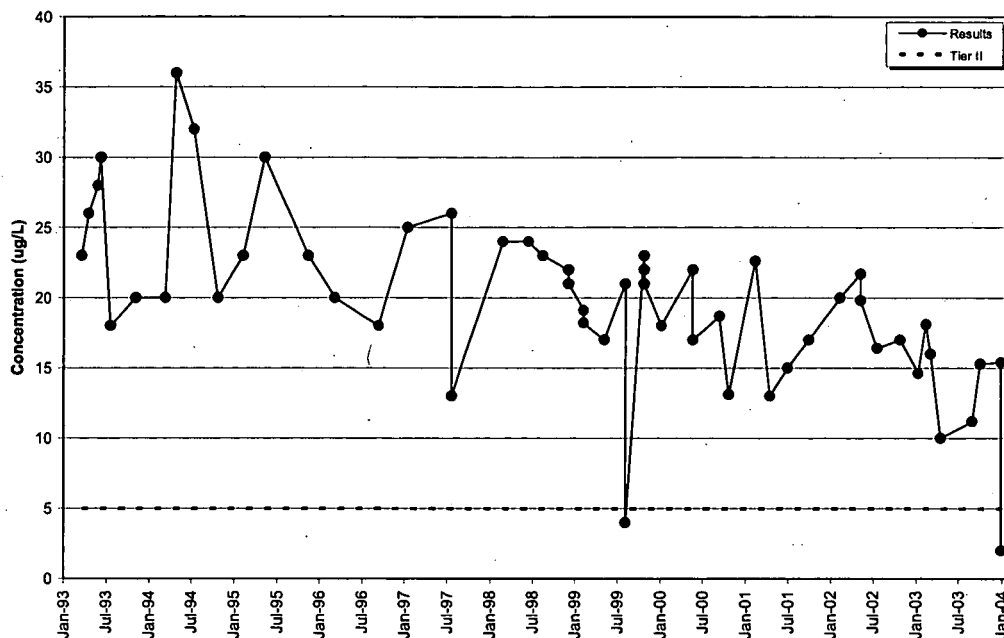


Figure 3-7. Trichloroethene Trend Plot for Well 70393.

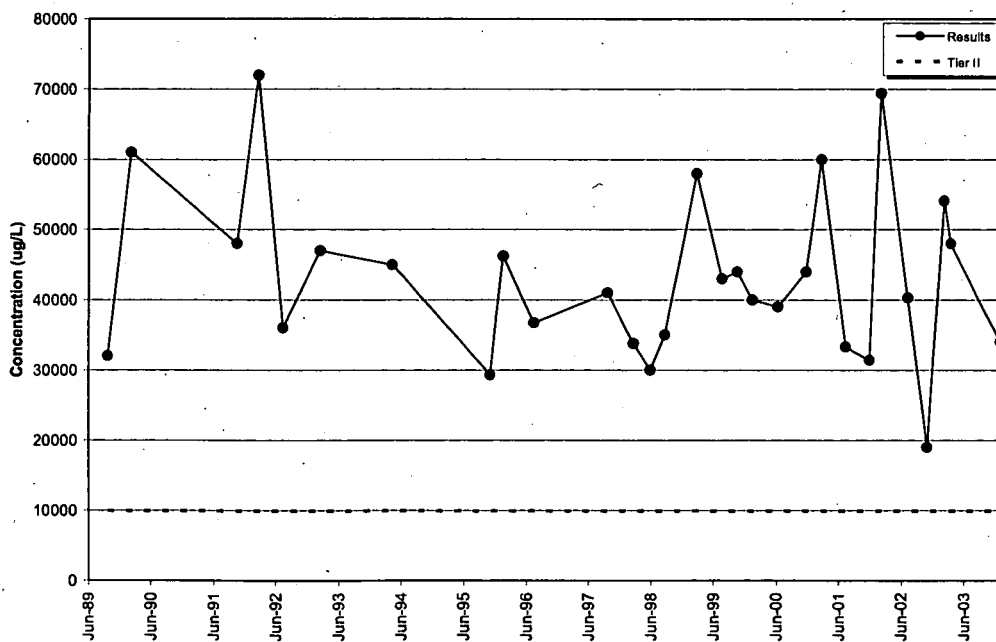


Figure 3-8. Nitrate/Nitrite Trend Plot for Well B206989.

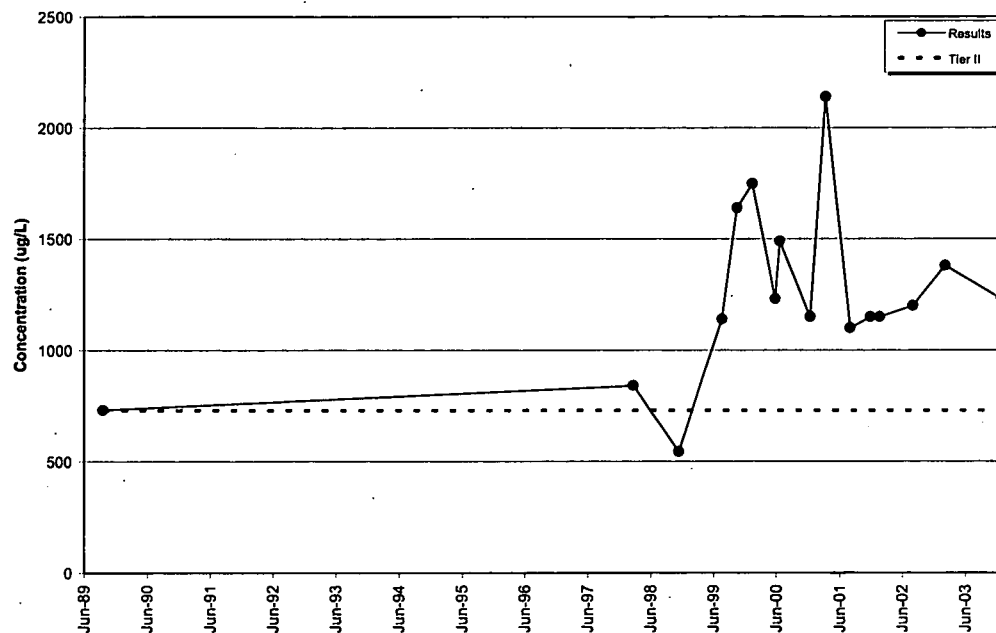


Figure 3-9. Lithium Trend Plot for Well B206989.

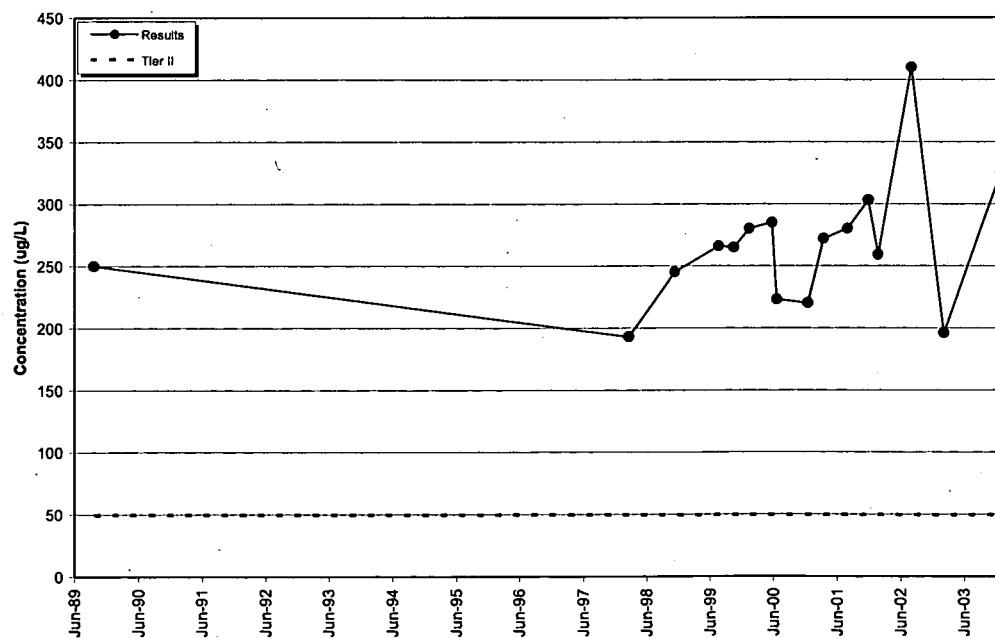


Figure 3-10. Selenium Trend Plot for Well B206989.

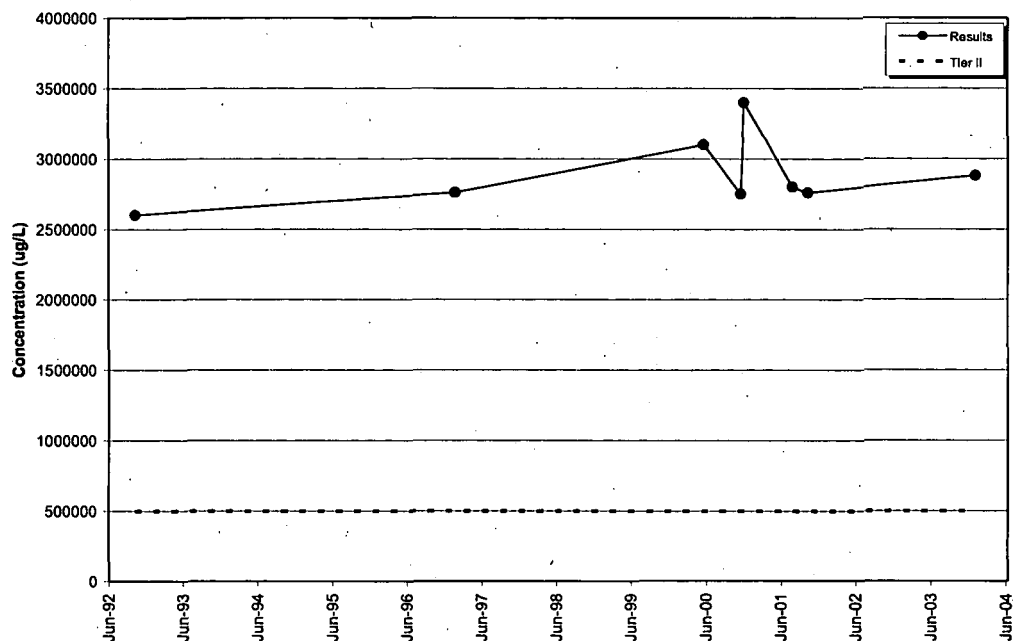


Figure 3-11. Sulfate Trend Plot for Well B206989.

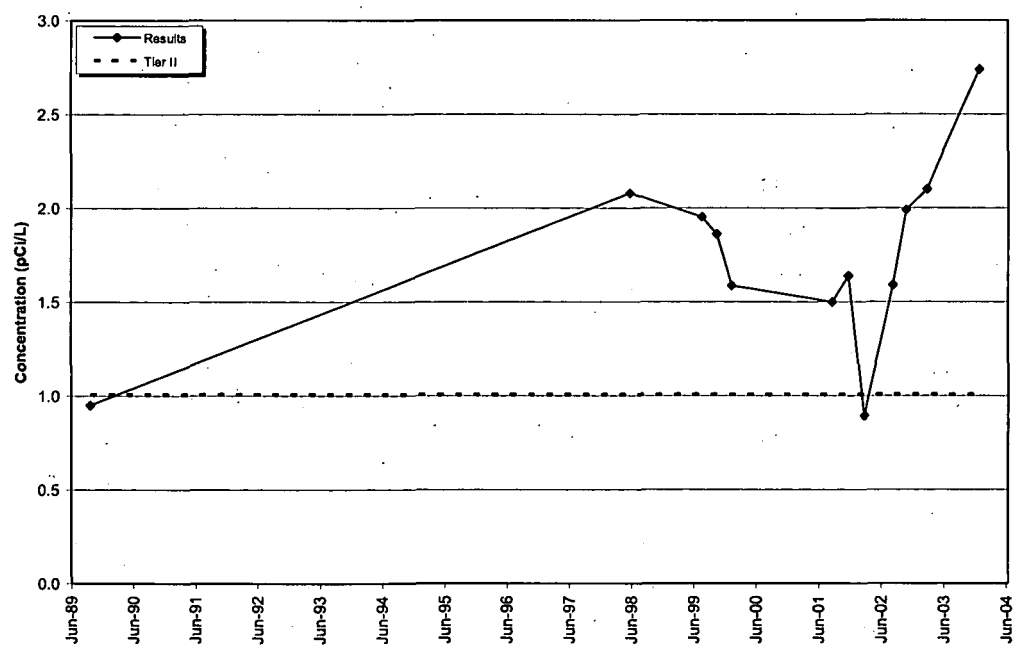


Figure 3-12. Uranium-235 Trend Plot for Well B206989.

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4 REQUIRED ACTIONS

Planned monitoring actions arising from the current evaluations of 1Q2004 groundwater data are discussed below. These proposed actions are followed by a brief summary of monitoring actions initiated by prior Quarterly RFCA Groundwater Monitoring Reports. Because of the time lag between the collection of data that later triggers monthly sampling, and the actual completion of that sampling, it is often necessary to include and discuss groundwater data collected outside 1Q2004.

4.1 Planned Monthly Monitoring Based on 1Q2004 Data

Table 4-1 lists no wells, which have been identified as potential candidates for monthly sampling (for three months) based on the results of the 1Q2004 sampling event. This is the first time in recent years that no wells have been identified for monthly sampling.

4.2 Monthly Monitoring Initiated by the Previous Quarterly Report

The 4Q2003 RFCA Monitoring Report (URS, 2004) initiated monthly sampling for the analytes and wells listed below. Although the IMP calls for monthly sampling for three events, many wells at RFETS are seasonally dry or produce limited sample volumes. Therefore, three monthly samples are often unavailable.

- Chloroform in groundwater of Well 20902.
- TCE in groundwater of Well 21498.
- PCE in groundwater of Well P416689.

Because the current 1Q2004 report is being generated within a few days of the 4Q2003 report, there has been no time to implement the monthly sampling required by the 4Q2003 report. Therefore, there are no data to discuss in this section. The results of monthly sampling initiated by evaluations included in the 4Q2003 report will be discussed in the 2Q2004 report during August 2004. There are no monthly samples initiated by evaluations in this 1Q2004 report.

Table 4-1. Candidate Wells and Analytes for Monthly Sampling and Analysis.

Location	Sample Date	Sample Number	Analyte	QC Code	Result Type	Result	Error	Units	Result Qualifier	Validation	Detection Limit	Dilution	Filtered	Tier II	Background	Historic M2SD	Monthlies	Well Class	Other Class
No wells were identified for monthly sampling and analysis during 1 st Quarter 2004																			

5 VALIDATION AND DATA QUALITY ASSESSMENT

The following text helps the reader distinguish between the "data validation" or "data verification" performed by ASD, and the "data quality assessment" (DQA) performed by WMCP personnel at RFETS. Also discussed are the technical basis, equations, and criteria used for the groundwater DQA.

5.1 General Discussion

Data validation and verification (V&V) procedures are the principal means of assessing the usability of groundwater analytical data. V&V also improves overall data quality by allowing ASD to closely monitor laboratory performance and to provide feedback to each laboratory regarding its ability to produce quality data that meets subcontract requirements. Information from V&V enables ASD to direct analytical work to laboratories that demonstrate superior performance by generating timely, high quality analytical data for RFETS.

Data validation is a rigorous data review performed by a Kaiser-Hill ASD subcontractor on approximately 25% of the groundwater analytical data generated by RFETS. The remaining 75% of the data are verified under less extensive data reviews than the validated data are subjected to. Verification-validation criteria are generally based on government-published standards and guidelines, primarily EPA Contract Laboratory Procedures (CLP) and SW-846 method guidelines for organic and inorganic data evaluation and review. Validation and verification are technically specialized data evaluations and are usually performed by analytical chemists. V&V work for RFETS is performed in accordance with a set of ASD procedures, some of which are listed below.

- K-H, 2002, General Guidelines for Data Verification and Validation, DA-GR01-v2, 10/1/02.
- K-H, 2002, Verification and Validation Guidelines for Volatile Organics, DA-SS01-v3, 10/1/02.
- K-H, 2002, Verification and Validation Guidelines for Inorganic Metals, DA-SS05-v3, 10/1/02.
- K-H, 2002, Verification and Validation Guidelines for Radionuclides by Gamma Spectrometry, DA-GAM-v1, 6/4/02.

All groundwater analytical data collected by RFETS are considered valid (V or V1) unless the V&V process identifies analytical problems that require the data to be qualified. When it is necessary to qualify individual data records, standard qualifier codes (alphanumeric validation codes) are applied. Integer "reason codes" often accompany these validation codes, enabling the data user to determine why the results were qualified. For example, groundwater data with a validation qualifier "R1" and a reason code

“101”, indicates that the verification process rejected the data as unusable for reason 101 (sample holding times were exceeded).

Common data qualifiers are defined below. Please refer to ASD documents for a complete list and for formal definitions.

- V Valid data. Validation found no problems with the results.
- V1 Valid data. Verification found no problems with the results.
- 1 This is a common but erroneous code found in the SWD validation field. Further checking by ASD usually confirms that the corresponding data record has been validated and should be V1.
- J The analytical result is estimated.
- U The analytical result is considered not detected (nondetect).
- JB Result is <RDL and estimated due to blank contamination.
- NJ The result is presumptively estimated.
- UJ Indicates an estimated nondetect result.
- R Unusable data, rejected by validation.
- R1 Unusable data, rejected by verification.

V&V work focuses on evaluation of laboratory quality control data such as method blanks, laboratory control samples (LCS), and spike recoveries. It also checks for adherence to sample and extract holding times, standard analytical methods, contractual requirements, and proper documentation.

Although DQA and V&V examine some of the same quality control data, they do so from different perspectives. DQA (in this report) looks at the overall quality of an entire calendar quarter of groundwater data, in contrast to V&V, which looks at the analytical details of individual data packages. V&V focuses on laboratory methodology, while DQA focuses on interpretation of data describing QC samples that originated in the field, such as “field duplicate” samples and “equipment rinsate” samples.

In contrast to V&V, the data quality assessment performed by WMCP personnel at RFETS, does not assign data qualifiers to individual analytical results or data packages. DQA is a second level of quality assurance intended to be a general assessment of how well the groundwater data collection program is operating. The DQA is performed by evaluating water quality data in terms of the PARCC parameters.

5.2 PARCC Parameters

Use of the PARCC parameters for DQA has been promoted by EPA guidance documents. These parameters include: precision, accuracy, representativeness, completeness, and comparability. Accuracy and precision are quantitative measures. Representativeness and comparability are qualitative measures. Completeness is a combination of both quantitative and qualitative measures.

WMCP personnel evaluate the PARCC parameters by following guidelines published in the following QC documents.

- RMRS, 2001, Quality Assurance Program Plan For The Groundwater Monitoring Program Rocky Flats Environmental Technology Site" (the QAPP).
- RMRS, 1998, Procedure for Evaluation of Data For Usability.

The following paragraphs discuss the PARCC parameters in detail and discuss the types of data available to assess them.

5.2.1 Criteria for Precision

The precision of a measurement is an expression of the mutual agreement between duplicate measurements of the same property taken under similar conditions. Precision can be expressed quantitatively by the relative percent difference (RPD) between real and field duplicate samples for Metals, Volatile Organic Compounds, Polychlorinated Biphenyls and Water Quality Parameters as defined by the following equation:

$$RPD = \frac{|(S - D)|}{(S + D)/2} * 100$$

where: S = Concentration of analyte in Real Sample

D = Concentration of analyte in Duplicate Sample

The RFETS WMCP uses the Duplicate Error Ratio (DER) to quantify the precision of radionuclide activity data.

$$DER = \frac{|(S - D)|}{\sqrt{[(TPU_s)^2 + (TPU_d)^2]}}$$

where: TPU_S = Total Propagated Uncertainty of the Sample

TPU_D = Total Propagated Uncertainty of the Duplicate

S = Sample Result

D = Duplicate (or Lab Replicate) Result

Because TPU is seldom reported with radionuclide activity data, the two-sigma error or random counting error has been substituted for TPU in the Uranium, Americium/Plutonium and Strontium calculations made for this report.

The RFETS QC criterion for groundwater RPDs is that individual RPDs should be $\leq 30\%$. The analogous criterion for DERs is to be ≤ 1.96 . The overall goal for the quarterly groundwater dataset is to have 85% of the RPD and DER values comply with the QC criteria.

5.2.2 Criteria for Accuracy

Accuracy is the degree of agreement for a measurement with an accepted reference or true value, and is a measure of the bias in a system. The closer the measurement to the true value, the more accurate the measurement. RFETS V&V process (described earlier) is the principal means for evaluating the accuracy of analytical results.

Accuracy assessment for PARCC evaluations, is based on the Procedure for Evaluation of Data For Usability (RMRS, 1998). Because the RFETS V&V process compares the actual analytical methods used by each laboratory to the contract-required analytical methods, the WMCP does not repeat this. However, the DQA does use a database query to compare the contract-required detection limits (CRDLs) for each analyte to the achieved detection limits.

Matrix spike and matrix spike duplicate recoveries are reported by the analytical laboratories for most non-radionuclide analytical suites. Criteria for acceptable matrix spike recoveries vary between laboratories, depending on the analyte, and the analytical method. The criterion for acceptable matrix spike results ranges from 75 to 125 % recovery.

Laboratory control sample (LCS) recoveries for radionuclides are often available for groundwater quality data. According to KH-ASD, laboratories in practice will commonly accept LCS values in the range of 70-130 %. LCS percent recoveries between the 70-130 % laboratory range and the 75-125 % QC range required by the KH-ASD laboratory contracts are examined by data validators for acceptability on an analyte by analyte basis. The criterion for acceptable LCS recoveries ranges from 75 to 125 % recovery.

Because some laboratories reported LCS results in pCi/L, while others calculated % recovery, the ASD-KH team implemented a new reporting criterion, "relative bias". The relative bias criterion is defined in the BOA by the following formula (see Page J-6 of the National BOA, section 2.3.2.5):

$$RelativeBias = \frac{Observed - Known}{Known}$$

where: Observed = measured activity of LCS standard (pCi/L)

Known = known activity of LCS standard (pCi/L)

Acceptable values for relative bias results range from -0.25 to +0.25. ASD-KH requested that laboratories begin reporting relative bias calculations for LCS samples in November 2001, and actual reporting began during the first quarter of 2002.

5.2.3 Criteria for Representativeness

Representativeness in DQA is limited to an evaluation of whether analytical results for field samples are truly representative of environmental concentrations, or whether they may have been influenced by the introduction of contamination during collection and handling. The potential introduction of contamination is evaluated by examination of the analytical results for equipment rinsates.

Equipment rinsates are used to assess the efficacy of the decontamination process used to clean groundwater sampling equipment. Analytes detected in rinsate samples indicate possible cross-contamination between environmental samples. Rinsates are samples of volatile-free "distilled" water that have been poured over or through decontaminated sampling equipment and subsequently handled in the same manner as environmental samples.

Although rinsates are used specifically as indicators of cross-contamination from improper decontamination of equipment, they are carried through the entire sampling, shipping, and laboratory process. Therefore, they are good indicators of potential contamination introduced during any of these steps. Because rinsate samples are judged adequate to assess introduced contamination, the WMCP does not use "trip blanks" in its QA program.

Other aspects of representativeness, such as the number of samples and their spatial distribution, are fixed by the FY 2002 Integrated Monitoring Plan (DOE, 2002). The DQA checks if all wells required to be sampled by the IMP, were visited during the quarter.

5.2.4 Criteria for Completeness

A qualitative measure of completeness is the rate of successful sampling. In each quarter the DQA verifies if all samples specified in the IMP were collected, unless a well was dry, or went dry during sampling. The completeness goal for successful sampling is the collection of at least 90% of the planned samples. However, the frequency of dry wells is outside the control of the WMCP. If all required wells were visited (some more than once), sampling completeness is considered acceptable.

Completeness as a quantitative measure of data quality may be expressed as the percentage of valid or acceptable data obtained from a measurement system. K-H ASD tracks analytical laboratory performance and both the shipment of samples to the laboratory and the receipt of data from the laboratory. Therefore, the WMCP does not track the timeliness of data receipt from the laboratories, but evaluates data completeness on the following formula:

$$Completeness = DP_u = \frac{DP_i - DP_n}{DP_i} * 100$$

where: DP_u = Percentage of usable data points

DP_i = Total number of data points

DP_n = Non-usable (rejected) data points

The completeness criterion is having $\geq 90\%$ valid samples.

5.2.5 Criteria for Comparability

Comparability is a qualitative parameter. Consistency in the acquisition, handling, and analysis of samples is necessary for comparing results. Data developed under the WMCP are collected in accordance with RFETS SOPs, transported per RFETS SOPs and US-DOT shipping regulations, and analyzed using standard EPA, or nationally recognized analytical methods. This helps to ensure comparability of results with other analyses performed in a similar manner.

At the start of third quarter 2001, nomenclature changed for the test method for metal analyses. However, this change in nomenclature does not affect the comparability of recent results with earlier analyses. K-H ASD verifies that laboratory analyses are performed according to the standard protocols specified by the RFETS subcontract to each laboratory. Therefore, the analytical results should be comparable to data produced by similar methods.

At the start of the second quarter 2001, the technique for the analysis of Volatile Organic Compounds was changed from the EPA 524.2 Drinking Water to the EPA SW-846, 8260 (Low Level) method. The change was made because the SW-846 method requires (as EPA 524.2 does not) a pre-screening analytical run that should help laboratories determine appropriate levels of dilution, when needed. The list of analytes for SW-846 includes all analytes in the EPA 524.2 list with the addition of (detection limits in ug/l given in parentheses) 1,1,2-trichloro-1,2,2-trifluoroethane (1), acetone (10), carbon disulfide (1), 2-butanone (10), 2-hexanone (10), and 4-methyl-2-pentanone (10). Detection limits for all remaining compounds are unchanged (at 1 ug/l) including the RFETS contaminants of concern (vinyl chloride, 1,1-dichloroethene, methylene chloride, carbon tetrachloride, cis-1,2-dichloroethene, chloroform, 1,1,1-trichloroethane, trichloroethene and tetrachloroethene). Because both the EPA 524.2 and SW-846 methods use gas chromatography as the basic analytical method, and detection limits have not changed, results gathered using either method should be comparable.

In the fourth quarter of 1998, the groundwater sampling procedure was modified to enhance the quality of the samples collected, and reduce the amount of purge water generated at certain wells. This practice has continued to the present. Dedicated bladder pumps were installed in some wells with adequate recharge rates. Pump equipped wells provide an opportunity for "micropurging" at the time of sampling.

Micropurging has several advantages over traditional groundwater sampling methods. Micropurge sample collection provides a method of minimizing increased colloid mobilization by removing water from the well in the screened interval at a rate that minimally disrupts steady-state flow conditions in the aquifer. During micropurge sampling, groundwater is discharged from the aquifer at a rate that minimizes drawdown at the well. Research indicates that colloid mobilization usually does not increase above steady-state conditions during low-flow discharge. Therefore, the collected sample is more likely to represent *in situ* groundwater chemistry. Because less water is needed to purge the pump system compared to purging the entire well with a bailer, there is less purge water to dispose of.

The installation of bladder pumps and micropurging without sample filtration resulted in a change in analytical method for metals. Pump equipped wells are sampled and analyzed for total metals because no filter is used during sample collection. Groundwater samples from bailed wells are filtered and analyzed for dissolved metals.

5.3 Groundwater DQA Results 1Q2004

Data used to evaluate the PARCC parameters are included in the 1Q2004 dataset described in Section 3.

5.3.1 Precision During the Quarter

Duplicate error ratios (DER) are indicators of precision for radionuclide analyses (see 5.2.1). The QC criterion for precision requires that individual DER values should be ≤ 1.96 , and overall the dataset should have $\geq 85\%$ compliance with the criterion. Table 5-1 is a tabulation of the DER values for 1Q2004 radionuclide analyses. The table has been sorted by the DER parameter so that the range of values is apparent. The DER range is from 0.66 to 0.96 indicating that no records exceeded the 1.96 criterion. Overall, 100% of the DER data are in compliance with the criterion, indicating excellent precision for radionuclide analyses.

Relative percent difference (RPD) between real and field duplicate sample results is an indicator of precision for non-radionuclide analyses. Individual RPD values should be $\leq 30\%$ and at least 85% of the RPDs should comply with the criterion. Table 5-2 tabulates RPD values and is sorted first by analyte suite, then by RPD, in order to highlight the RPD range of each suite. RPD values for metals ranged from 0% to 44.6%; VOCs had RPDs of 0%; and RPDs for Water Quality Parameters varied from 0.9% to 1.6%.

Table 5-3 summarizes the RPD findings of Table 5-2 and determines if the 85% goal has been met. During 1Q2004, the RPD goal was met for water quality parameters (100%), and for VOCs (100%). Metals also met the RPD goal with 89% acceptable RPDs. Overall, these non-radionuclide data had 96.8% acceptable RPDs, and met the 85% goal.

5.3.2 Accuracy During the Quarter

Detection limits achieved by the laboratories analyzing samples collected during 1Q2004, were compared with the contract-required-detection limits (CRDLs) as an indicator of accuracy. An analytical reporting limit is raised by the dilution factor when sample dilution is necessary to bring an analyte within an analytical instrument's calibration range. Such dilution is required under laboratory subcontracts issued by RFETS. Therefore, the DQA analysis normalized reporting limits (RDLs) by dividing each of them by the sample dilution factor prior to comparing them against the CRDLs.

A database query compared each normalized RDL to the corresponding CRDL and found no RDLs that exceeded their CRDLs (Table 5-4). This is better performance than the last quarter, when 11 analyses of petroleum hydrocarbons exceeded their CRDLs. The most significant observation is that 100% of the 1,257 data records (for REALs, DUPs, RNSs) achieved the contract-required CRDLs. Thus, by this measure the groundwater data are of high accuracy.

Matrix spike recoveries provide another measure of accuracy. Table 5-5 displays recoveries for 290 matrix spikes (MS) and matrix spike duplicate (MSD) samples for metals, VOAs, and water quality

parameters (WQP includes major and minor anions). This large amount of data is summarized in Table 5-6. The VOCs and water quality parameters, met the QC goal by having more than 90% of their recoveries fall in the range 75% to 125%. WQPs and VOCs had 100% of their spike recoveries fall in the acceptable range. The metals suite missed the goal with 79% acceptable recoveries. Overall, across all analytical suites, the percentage of acceptable MS/MSD results was 86%, failing the accuracy goal of 90%.

Relative bias values for Laboratory Control Samples (LCS) are used to evaluate the accuracy of radionuclide analyses, instead of matrix spikes. Table 5-7 is a tabulation of relative bias values for radionuclide analyses generated during 1Q2004. There are only 3 records, but the table is sorted by relative bias to show its range. The QC criterion for the acceptable range of relative bias values is from -0.25 to +0.25. Note that 100% of the relative bias values for radionuclide LCS samples are in the acceptable range. Thus the groundwater radiochemistry data appear to be of high accuracy.

LCSs results for non-radionuclide suites were available for metals, VOAs, and water quality parameters (including anions). These LCS recoveries are tabulated in Table 5-8, which is sorted by analyte group, analytical method (LIC), then by % recovery. The LCS recoveries for metals fell in the range 91% to 117% and 100% of the metals recoveries were within the 75% to 125% acceptable QC range. Similarly water quality parameter recoveries ranged from 94% to 109% and were all acceptable. All but 2 of the VOA recoveries were acceptable, ranging from 69% to 115%. There were no SVOA or PCB data this quarter. In summary the LCS recoveries indicate that 1Q2004 groundwater analytical data for metals, VOAs, and water quality parameters are all of high accuracy.

Another aspect of accuracy is "rejected data". Out of 1,257 analytical records representing reals, duplicates and rinsates during 1Q2004, no records were rejected (R1 qualified) during data verification, or validation. Another way to state this is that 100% of the analytical data collected during the first quarter were considered to be valid and usable. Table 5-9 is included to maintain the table numbering although this table does not list any rejected records this quarter.

5.3.3 Representativeness During the Quarter

As written earlier, representativeness is an evaluation of the sampling procedure for its ability to reflect the true groundwater concentrations of contaminants. Equipment rinsate samples are used by the WMCP to determine whether there is introduced contamination from improper or incomplete decontamination of the sampling equipment.

During 1Q2004 a total of 98 rinsate analytical records were generated for VOAs, metals, radionuclides, and water quality parameters. Most of these records lack evidence of contamination. Two records at the top of Table 5-10 provide relatively weak evidence of contamination, potentially due to incomplete

decontamination of sampling equipment. Both of these records are associated with sampling at Well 70193 on 1/13/04. The RNS sample showed Cu at 5.9 ug/L and U-233,-234 at 1 pCi/L. These results are both less than Tier II action levels.

Overall, little contamination was introduced during 1Q2004 groundwater sampling and/or shipping activities. Therefore, groundwater quality data for the first quarter are judged to be representative of the actual well water concentrations.

Because all required sampling locations defined in the IMP were visited (Table 5-11 discussed below), and almost all samples that could be collected were analyzed, analyses for the first quarter 2004 are judged to be representative with respect to spatial coverage.

5.3.4 Completeness During the Quarter

Table 5-11 indicates that during first quarter sampling crews made 29 visits to wells or drains, in attempts to collect groundwater samples. In fact, multiple visits were made to many dry wells and to wells with insufficient water for collection of all requested samples.

Dry wells and wells with insufficient groundwater prevented collected of all requested samples. Table 5-11 shows that only 57% of U-isotope samples were collected. However, the sampling success rates for all other requested suites fell between 62% and 100%. Overall the sampling success rate (for all analyte suites) was 73% during 1Q2004. The goal, groundwater conditions permitting, is to have greater than or equal to 90% successful sampling. However, because availability of groundwater is beyond the control of the samplers, and because all requested well visits were performed, sampling completeness is considered adequate for 1Q2004.

Validation/Verification completeness is summarized in Table 5-12. This table compiles by analytical suite (actually SWD line item code), the total number of data points for reals, duplicates, and rinsate samples. It then subtracts rejected data points, and subtracts points that lack validation qualifiers. The result is the net number of usable validated or verified data points, and this is expressed as % usable data, or % V&V completeness. The QC goal for completeness is $\geq 90\%$.

This quarter metals, VOCs, radionuclides, and water quality parameters all met the completeness goal. The overall validation completeness across all analytical suites was 97.5% meeting the completeness goal. Therefore, from the perspective of V&V completeness, the 1Q2004 groundwater data are acceptable.

Another measure of completeness is that an adequate number of QC samples (field duplicates and equipment rinsates) must be collected to meet QC requirements. The recommended frequency for

collecting duplicate samples is 1 duplicate (DUP) per 20 or fewer primary (REAL) water samples. In other words, duplicates should be collected at a 5 % or greater frequency per REAL sample. Like duplicates, rinsate samples (RNS) are also to be collected at a 5% or greater rate.

The sample collection frequencies of REAL, DUP, and RNS samples are tabulated by analyte suite in Table 5-13. The ratios of REAL/ DUP samples shown in Table 5-13 all meet groundwater QC goals with one DUP per 8 or fewer REALs. Overall there was one DUP per 6.2 REALs. Across all analyte suites and samples collected during the quarter, the overall frequency of duplicates was 16%, exceeding program goals of 5%. If the data in SWD are examined on a per record basis, the frequency of duplicates is of similar magnitude at 9%.

The ratios of REAL/ RNS samples of Table 5-13 meet program QC goals with one rinsate per 8 or fewer REALs. Overall, across all suites and samples collected during the quarter, the rinsate collection frequency was 16%, exceeding program goals of 5%. On a per record basis the frequency of rinsates was 9%.

In summary, both field duplicate and rinsate sampling frequencies were within QC requirements on both a per sample and a per record basis, for metals, VOAs, WQPs, and radionuclides.

5.3.5 Comparability During the Quarter

No program-wide changes were made to groundwater sampling or to analytical procedures in the first quarter of 2004. Therefore, the analytical data generated during 1Q2004 should be comparable to corresponding analyses from previous quarters.

5.4 Quarterly DQA Summary

The above DQA evaluations of groundwater quality data for 1Q2004 lead to the following conclusions, listed by PARCC parameter.

Precision

- Overall, 100% of the DER values meet the criterion, indicating excellent precision for radionuclide analyses.
- Overall, the non-radionuclide data had 96.8% acceptable RPDs, and met the 85% goal. This is an improvement from the prior quarter, when data failed to meet the goal.

Accuracy

- The most significant observation is that 100% of the data records achieved the contract-required CRDLs during 1Q2004. By this measure the groundwater data are of high accuracy.
- Out of 1257 analytical records representing reals, duplicates and rinsates during 1Q2004, no records were rejected (R1 qualified) during data verification or validation. Another way to state this is that 100% of the analytical data collected during the quarter were considered to be valid and usable.
- Overall, across all analytical suites, the percentage of acceptable MS/MSD results was 86%, not meeting the accuracy goal of 90%. This is down from last quarter, which had 91% acceptable results.
- Note that 100% of the relative bias values for radionuclide LCS samples are in the acceptable range. Thus the radiochemistry data also appear to be of high accuracy. High percentages of LCS recoveries in the acceptable range indicate that 1Q2004 groundwater analytical data for metals, VOAs, and water quality parameters are all of high accuracy.

Representativeness

- Overall, little contamination was introduced during 1Q2004 groundwater sampling and/or shipping activities, because only two of the rinsates appear to be contaminated, and the remaining records are mostly "B" or "J" qualified. Therefore, in general groundwater quality data for the first quarter are judged to be representative of the actual well water concentrations.

Completeness

- The overall sampling success rate (for all analyte suites) was 73%. Although this is below the goal of 90%, the availability of groundwater is beyond the control of the samplers. Because all requested wells were visited, sampling completeness is considered adequate for 1Q2004.
- The overall validation completeness across all analytical suites was 97.5% exceeding the completeness goal, and similar to the completeness of last quarter. Therefore, from the perspective of V&V completeness the 1Q2004 groundwater data are acceptable.
- In summary, both field duplicate and rinsate sampling frequencies met QC requirements on both a per sample and a per record basis.

Comparability

- No program-wide changes were made to groundwater sampling or to analytical procedures in the first quarter of 2004. Therefore, the analytical data generated during the quarter should be comparable to previous quarters.

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Table 5-1. Duplicate Error Ratios (DER) for Radionuclides.

Location	Sample Date	Analyte	Real Result	Real 2 Sigma Error	Real Lab Qualifier	Real Validation	Duplicate Result	Dup 2 Sigma Error	Duplicate Lab Qualifier	Duplicate Validation	Units	DER
70193	01/13/04	URANIUM-238	0.116	.188	U	V	-0.00808	.187	U	V	PCI/L	0.66
70193	01/13/04	URANIUM-233,-234	-0.0672	.247	U	V	0.143	.254	U	V	PCI/L	0.74
70193	01/13/04	URANIUM-235	-0.0449	.202	U	V	0.304	.246	J	V	PCI/L	0.96

Table 5-2. Relative Percent Differences (RPD) for Non-Radionuclide Data.

Location	Sample Date	Analyte	Real Result	Real Lab Qualifier	Real Validation	Duplicate Result	Duplicate Lab Qualifier	Duplicate Validation	Units	RPD%
70193	01/13/04	ARSENIC	1.03	U	V1	1.03	U	V1	UG/L	0.00
70193	01/13/04	BARIUM	81.7	B	V1	81.7	B	V1	UG/L	0.00
70193	01/13/04	BERYLLIUM	0.025	U	V1	0.025	U	V1	UG/L	0.00
70193	01/13/04	MERCURY	0.033	U	J1	0.033	U	J1	UG/L	0.00
70193	01/13/04	MOLYBDENUM	1.07	B	V1	1.07	B	V1	UG/L	0.00
70193	01/13/04	SILVER	0.008	U	V1	0.008	U	V1	UG/L	0.00
70193	01/13/04	VANADIUM	0.904	U	J1	0.904	U	J1	UG/L	0.00
70193	01/13/04	CALCIUM	22700		V1	22600		V1	UG/L	0.44
70193	01/13/04	STRONTIUM	157	BE	J1	158	BE	J1	UG/L	0.63
70193	01/13/04	LITHIUM	7.82	B	V1	7.77	B	V1	UG/L	0.64
70193	01/13/04	NICKEL	0.912	B	UJ1	0.904	B	UJ1	UG/L	0.88
70193	01/13/04	URANIUM, TOTAL	0.146	B	V1	0.144	B	V1	UG/L	1.38
70193	01/13/04	POTASSIUM	1080	B	V1	1110	B	V1	UG/L	2.74
70193	01/13/04	SELENIUM	7.31		V1	7.1		V1	UG/L	2.91
70193	01/13/04	IRON	95.4	B	V1	92.2	B	V1	UG/L	3.41
70193	01/13/04	CADMIUM	0.037	B	V1	0.039	B	V1	UG/L	5.26
70193	01/13/04	CHROMIUM	2.57		UJ1	2.43		UJ1	UG/L	5.60
70193	01/13/04	MAGNESIUM	4540	B	V1	4290	B	V1	UG/L	5.66
70193	01/13/04	SODIUM	13100		V1	11900		V1	UG/L	9.60
70193	01/13/04	ALUMINUM	15.8	B	UJ1	13.7	B	UJ1	UG/L	14.24
70193	01/13/04	ANTIMONY	0.173	B	UJ1	0.142	B	UJ1	UG/L	19.68
70193	01/13/04	LEAD	0.078	B	UJ1	0.064	B	UJ1	UG/L	19.72
70193	01/13/04	TIN	0.208	B	UJ1	0.264	B	UJ1	UG/L	23.73
70193	01/13/04	THALLIUM	0.053	B	UJ1	0.04	B	UJ1	UG/L	27.96
70193	01/13/04	MANGANESE	1.02	BE	J1	1.38	BE	J1	UG/L	30.00
70193	01/13/04	COPPER	1.33	B	UJ1	0.906	B	UJ1	UG/L	37.92
70193	01/13/04	COBALT	0.415	B	V1	0.646	B	V1	UG/L	43.54
70193	01/13/04	ZINC	2.85	B	UJ1	1.81	B	UJ1	UG/L	44.64
70193	01/13/04	1,1,1,2-TETRACHLOROETHANE	1	U	V1	1	U	V1	UG/L	0.00

Location	Sample Date	Analyte	Real Result	Real Lab Qualifier	Real Validation	Duplicate Result	Duplicate Lab Qualifier	Duplicate Validation	Units	RPD%
70193	01/13/04	1,1,1-TRICHLOROETHANE	1	U	V1	1	U	V1	UG/L	0.00
70193	01/13/04	1,1,2,2-TETRACHLOROETHANE	1	U	V1	1	U	V1	UG/L	0.00
70193	01/13/04	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	5	U	V1	5	U	V1	UG/L	0.00
70193	01/13/04	1,1,2-TRICHLOROETHANE	1	U	V1	1	U	V1	UG/L	0.00
70193	01/13/04	1,1-DICHLOROETHANE	1	U	V1	1	U	V1	UG/L	0.00
70193	01/13/04	1,1-DICHLOROETHENE	1	U	V1	1	U	V1	UG/L	0.00
70193	01/13/04	1,1-DICHLOROPROPENE	1	U	V1	1	U	V1	UG/L	0.00
70193	01/13/04	1,2,3-TRICHLOROBENZENE	1	U	V1	1	U	V1	UG/L	0.00
70193	01/13/04	1,2,3-TRICHLOROPROPANE	1	U	V1	1	U	V1	UG/L	0.00
70193	01/13/04	1,2,4-TRICHLOROBENZENE	1	U	V1	1	U	V1	UG/L	0.00
70193	01/13/04	1,2-DIBROMOETHANE	1	U	V1	1	U	V1	UG/L	0.00
70193	01/13/04	1,2-DICHLOROBENZENE	1	U	V1	1	U	V1	UG/L	0.00
70193	01/13/04	1,2-DICHLOROETHANE	1	U	V1	1	U	V1	UG/L	0.00
70193	01/13/04	1,2-DICHLOROPROPANE	1	U	V1	1	U	V1	UG/L	0.00
70193	01/13/04	1,3-DICHLOROBENZENE	1	U	V1	1	U	V1	UG/L	0.00
70193	01/13/04	1,3-DICHLOROPROPANE	1	U	V1	1	U	V1	UG/L	0.00
70193	01/13/04	1,4-DICHLOROBENZENE	1	U	V1	1	U	V1	UG/L	0.00
70193	01/13/04	2,2-DICHLOROPROPANE	1	U	V1	1	U	V1	UG/L	0.00
70193	01/13/04	2-BUTANONE	10	U	V1	10	U	V1	UG/L	0.00
70193	01/13/04	2-CHLOROTOLUENE	1	U	V1	1	U	V1	UG/L	0.00
70193	01/13/04	2-HEXANONE	10	U	V1	10	U	V1	UG/L	0.00
70193	01/13/04	4-ISOPROPYLTOLUENE	1	U	V1	1	U	V1	UG/L	0.00
70193	01/13/04	4-METHYL-2-PENTANONE	10	U	V1	10	U	V1	UG/L	0.00
70193	01/13/04	ACETONE	10	U	V1	10	U	V1	UG/L	0.00
70193	01/13/04	BENZENE	1	U	V1	1	U	V1	UG/L	0.00
70193	01/13/04	BENZENE, 1,2,4-TRIMETHYL	1	U	V1	1	U	V1	UG/L	0.00
70193	01/13/04	BENZENE, 1,3,5-TRIMETHYL-	1	U	V1	1	U	V1	UG/L	0.00
70193	01/13/04	BROMOBENZENE	1	U	V1	1	U	V1	UG/L	0.00
70193	01/13/04	BROMOCHLOROMETHANE	1	U	V1	1	U	V1	UG/L	0.00
70193	01/13/04	BROMODICHLOROMETHANE	1	U	V1	1	U	V1	UG/L	0.00

Location	Sample Date	Analyte	Real Result	Real Lab Qualifier	Real Validation	Duplicate Result	Duplicate Lab Qualifier	Duplicate Validation	Units	RPD%
70193	01/13/04	BROMOFORM	1	U	U1	1	U	U1	UG/L	0.00
70193	01/13/04	BROMOMETHANE	1	U	V1	1	U	V1	UG/L	0.00
70193	01/13/04	CARBON DISULFIDE	5	U	V1	5	U	V1	UG/L	0.00
70193	01/13/04	CARBON TETRACHLORIDE	1	U	V1	1	U	V1	UG/L	0.00
70193	01/13/04	CHLOROBENZENE	1	U	V1	1	U	V1	UG/L	0.00
70193	01/13/04	CHLOROETHANE	1	U	V1	1	U	V1	UG/L	0.00
70193	01/13/04	CHLOROFORM	1	U	V1	1	U	V1	UG/L	0.00
70193	01/13/04	CHLOROMETHANE	1	U	V1	1	U	V1	UG/L	0.00
70193	01/13/04	cis-1,2-DICHLOROETHENE	1	U	V1	1	U	V1	UG/L	0.00
70193	01/13/04	cis-1,3-DICHLOROPROPENE	1	U	V1	1	U	V1	UG/L	0.00
70193	01/13/04	DIBROMOCHLOROMETHANE	1	U	V1	1	U	V1	UG/L	0.00
70193	01/13/04	DIBROMOMETHANE	1	U	V1	1	U	V1	UG/L	0.00
70193	01/13/04	DICHLORODIFLUOROMETHANE	1	U	V1	1	U	V1	UG/L	0.00
70193	01/13/04	ETHYLBENZENE	1	U	V1	1	U	V1	UG/L	0.00
70193	01/13/04	HEXACHLOROBUTADIENE	1	U	V1	1	U	V1	UG/L	0.00
70193	01/13/04	ISOPROPYLBENZENE	1	U	V1	1	U	V1	UG/L	0.00
70193	01/13/04	METHYLENE CHLORIDE	1	U	V1	1	U	V1	UG/L	0.00
70193	01/13/04	NAPHTHALENE	1	U	V1	1	U	V1	UG/L	0.00
70193	01/13/04	n-BUTYLBENZENE	1	U	V1	1	U	V1	UG/L	0.00
70193	01/13/04	n-PROPYLBENZENE	1	U	V1	1	U	V1	UG/L	0.00
70193	01/13/04	p-CHLOROTOLUENE	1	U	V1	1	U	V1	UG/L	0.00
70193	01/13/04	PROPANE, 1,2-DIBROMO-3-CHLORO-	1	U	V1	1	U	V1	UG/L	0.00
70193	01/13/04	sec-BUTYLBENZENE	1	U	V1	1	U	V1	UG/L	0.00
70193	01/13/04	STYRENE	1	U	V1	1	U	V1	UG/L	0.00
70193	01/13/04	tert-BUTYLBENZENE	1	U	V1	1	U	V1	UG/L	0.00
70193	01/13/04	TETRACHLOROETHENE	1	U	V1	1	U	V1	UG/L	0.00
70193	01/13/04	TOLUENE	1	U	V1	1	U	V1	UG/L	0.00
70193	01/13/04	TOTAL XYLENES	3	U	V1	3	U	V1	UG/L	0.00
70193	01/13/04	trans-1,2-DICHLOROETHENE	1	U	V1	1	U	V1	UG/L	0.00
70193	01/13/04	trans-1,3-DICHLOROPROPENE	1	U	V1	1	U	V1	UG/L	0.00

Location	Sample Date	Analyte	Real Result	Real Lab Qualifier	Real Validation	Duplicate Result	Duplicate Lab Qualifier	Duplicate Validation	Units	RPD%
70193	01/13/04	TRICHLOROETHENE	1	U	V1	1	U	V1	UG/L	0.00
70193	01/13/04	TRICHLOROFLUOROMETHANE	1	U	V1	1	U	V1	UG/L	0.00
70193	01/13/04	VINYL CHLORIDE	1	U	V1	1	U	V1	UG/L	0.00
70193	01/13/04	SULFATE	21500		V1	21700		V1	UG/L	0.93
70193	01/13/04	FLUORIDE	285	B	V1	281	B	V1	UG/L	1.41
70193	01/13/04	NITRATE/NITRITE	2530		V1	2570		V1	UG/L	1.57

Table 5-3. Summary of Relative Percent Differences (RPD) Values.

Analyte Group	Total Number of RPD Results	Number of Unacceptable Results RPD>30%	Number of Acceptable Results	Percentage Acceptable	Goal Met
Metal	28	3	25	89.29	Yes
VOC	64	0	64	100.00	Yes
WQP	3	0	3	100.00	Yes
Totals	95	3	92	96.84	Yes (overall)
Table Note: Radionuclides are evaluated by DER rather than RPD results.					

Table 5-4. Reporting Limits Greater Than Contract Required Detection Limits.

Location	Sample Date	Sample Number	Analyte	QC Code	Result Type	Std Result	Error	Std Unit	Result Qualifier	Validation	Std DetLimit	Dilution	Normalized RL	CRDL	Filtered	Lab	LIC	Method
No samples had reporting limits greater than the contract required detection limits.																		

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Table 5-5. Matrix Spike (MS) & Matrix Spike Duplicate (MSD) Recoveries.

Location	Sample Date	Sample Number	Lab	Lab Batch	Lab Sample Number	RIN	Analyte	Result Type	Std Result	Std Unit
B206989	01/07/04	GW11264ST	GEL	303130	1200554251	04D0324	MERCURY	MS1	106.5	%REC
B206989	01/07/04	GW11264ST	GEL	303773	1200555500	04D0324	ANTIMONY	MS1	108.9	%REC
B206989	01/07/04	GW11264ST	GEL	303773	1200555500	04D0324	BARIUM	MS1	107.2	%REC
B206989	01/07/04	GW11264ST	GEL	303773	1200555500	04D0324	CADMIUM	MS1	96.9	%REC
B206989	01/07/04	GW11264ST	GEL	303773	1200555500	04D0324	LEAD	MS1	94.4	%REC
B206989	01/07/04	GW11264ST	GEL	303773	1200555500	04D0324	LITHIUM	MS1	20	%REC
B206989	01/07/04	GW11264ST	GEL	303773	1200555500	04D0324	MOLYBDENUM	MS1	105.2	%REC
B206989	01/07/04	GW11264ST	GEL	303773	1200555500	04D0324	SILVER	MS1	102.2	%REC
B206989	01/07/04	GW11264ST	GEL	303773	1200555500	04D0324	SODIUM	MS1	2550	%REC
B206989	01/07/04	GW11264ST	GEL	303773	1200555500	04D0324	STRONTIUM	MS1	-140	%REC
B206989	01/07/04	GW11264ST	GEL	303773	1200555500	04D0324	THALLIUM	MS1	89.5	%REC
B206989	01/07/04	GW11264ST	GEL	303773	1200555500	04D0324	TIN	MS1	105.7	%REC
B206989	01/07/04	GW11264ST	GEL	303773	1200555500	04D0324	URANIUM, TOTAL	MS1	100.6	%REC
70393	01/12/04	GW11262ST	GEL	304186	1200556493	04D0329	MERCURY	MS1	107	%REC
70393	01/12/04	GW11262ST	GEL	304280	1200556583	04D0329	ALUMINUM	MS1	101.1	%REC
70393	01/12/04	GW11262ST	GEL	304280	1200556583	04D0329	ANTIMONY	MS1	107.1	%REC
70393	01/12/04	GW11262ST	GEL	304280	1200556583	04D0329	ARSENIC	MS1	105.2	%REC
70393	01/12/04	GW11262ST	GEL	304280	1200556583	04D0329	BARIUM	MS1	99.2	%REC
70393	01/12/04	GW11262ST	GEL	304280	1200556583	04D0329	BERYLLIUM	MS1	105.9	%REC
70393	01/12/04	GW11262ST	GEL	304280	1200556583	04D0329	CADMIUM	MS1	105.9	%REC
70393	01/12/04	GW11262ST	GEL	304280	1200556583	04D0329	CALCIUM	MS1	115	%REC
70393	01/12/04	GW11262ST	GEL	304280	1200556583	04D0329	CHROMIUM	MS1	106.2	%REC
70393	01/12/04	GW11262ST	GEL	304280	1200556583	04D0329	COBALT	MS1	105.8	%REC
70393	01/12/04	GW11262ST	GEL	304280	1200556583	04D0329	COPPER	MS1	108.7	%REC
70393	01/12/04	GW11262ST	GEL	304280	1200556583	04D0329	IRON	MS1	116.1	%REC
70393	01/12/04	GW11262ST	GEL	304280	1200556583	04D0329	LEAD	MS1	105.7	%REC
70393	01/12/04	GW11262ST	GEL	304280	1200556583	04D0329	LITHIUM	MS1	96.4	%REC
70393	01/12/04	GW11262ST	GEL	304280	1200556583	04D0329	MAGNESIUM	MS1	85.5	%REC
70393	01/12/04	GW11262ST	GEL	304280	1200556583	04D0329	MANGANESE	MS1	107.7	%REC
70393	01/12/04	GW11262ST	GEL	304280	1200556583	04D0329	MOLYBDENUM	MS1	109.5	%REC
70393	01/12/04	GW11262ST	GEL	304280	1200556583	04D0329	NICKEL	MS1	107.1	%REC
70393	01/12/04	GW11262ST	GEL	304280	1200556583	04D0329	POTASSIUM	MS1	99.6	%REC

Location	Sample Date	Sample Number	Lab	Lab Batch	Lab Sample Number	RIN	Analyte	Result Type	Std Result	Std Unit
70393	01/12/04	GW11262ST	GEL	304280	1200556583	04D0329	SELENIUM	MSI	104	%REC
70393	01/12/04	GW11262ST	GEL	304280	1200556583	04D0329	SILVER	MSI	116	%REC
70393	01/12/04	GW11262ST	GEL	304280	1200556583	04D0329	SODIUM	MSI	60	%REC
70393	01/12/04	GW11262ST	GEL	304280	1200556583	04D0329	STRONTIUM	MSI	108	%REC
70393	01/12/04	GW11262ST	GEL	304280	1200556583	04D0329	THALLIUM	MSI	100.3	%REC
70393	01/12/04	GW11262ST	GEL	304280	1200556583	04D0329	TIN	MSI	101.4	%REC
70393	01/12/04	GW11262ST	GEL	304280	1200556583	04D0329	URANIUM, TOTAL	MSI	118.3	%REC
70393	01/12/04	GW11262ST	GEL	304280	1200556583	04D0329	VANADIUM	MSI	89.4	%REC
70393	01/12/04	GW11262ST	GEL	304280	1200556583	04D0329	ZINC	MSI	98.7	%REC
5887	01/09/04	GW11256ST	GEL	307250	1200563383	04D0324	ALUMINUM	MSI	122	%REC
5887	01/09/04	GW11256ST	GEL	307250	1200563383	04D0324	ARSENIC	MSI	99	%REC
5887	01/09/04	GW11256ST	GEL	307250	1200563383	04D0324	BERYLLIUM	MSI	96.4	%REC
5887	01/09/04	GW11256ST	GEL	307250	1200563383	04D0324	CALCIUM	MSI	170	%REC
5887	01/09/04	GW11256ST	GEL	307250	1200563383	04D0324	CHROMIUM	MSI	102.5	%REC
5887	01/09/04	GW11256ST	GEL	307250	1200563383	04D0324	COBALT	MSI	93.5	%REC
5887	01/09/04	GW11256ST	GEL	307250	1200563383	04D0324	COPPER	MSI	94.1	%REC
5887	01/09/04	GW11256ST	GEL	307250	1200563383	04D0324	IRON	MSI	99.7	%REC
5887	01/09/04	GW11256ST	GEL	307250	1200563383	04D0324	MAGNESIUM	MSI	115.5	%REC
5887	01/09/04	GW11256ST	GEL	307250	1200563383	04D0324	MANGANESE	MSI	100.5	%REC
5887	01/09/04	GW11256ST	GEL	307250	1200563383	04D0324	NICKEL	MSI	93.8	%REC
5887	01/09/04	GW11256ST	GEL	307250	1200563383	04D0324	POTASSIUM	MSI	113.3	%REC
5887	01/09/04	GW11256ST	GEL	307250	1200563383	04D0324	SELENIUM	MSI	98.4	%REC
5887	01/09/04	GW11256ST	GEL	307250	1200563383	04D0324	VANADIUM	MSI	103.4	%REC
5887	01/09/04	GW11256ST	GEL	307250	1200563383	04D0324	ZINC	MSI	99.1	%REC
1786	02/12/04	GW11265ST	GEL	312217	1200575342	04D0391	MERCURY	MSI	104	%REC
1786	02/12/04	GW11265ST	GEL	312347	1200575670	04D0391	ALUMINUM	MSI	115.5	%REC
1786	02/12/04	GW11265ST	GEL	312347	1200575670	04D0391	ANTIMONY	MSI	101	%REC
1786	02/12/04	GW11265ST	GEL	312347	1200575670	04D0391	ARSENIC	MSI	104.6	%REC
1786	02/12/04	GW11265ST	GEL	312347	1200575670	04D0391	BARIUM	MSI	94	%REC
1786	02/12/04	GW11265ST	GEL	312347	1200575670	04D0391	BERYLLIUM	MSI	94.8	%REC
1786	02/12/04	GW11265ST	GEL	312347	1200575670	04D0391	CADMIUM	MSI	97.3	%REC
1786	02/12/04	GW11265ST	GEL	312347	1200575670	04D0391	CALCIUM	MSI	-300	%REC
1786	02/12/04	GW11265ST	GEL	312347	1200575670	04D0391	CHROMIUM	MSI	96.9	%REC

Location	Sample Date	Sample Number	Lab	Lab Batch	Lab Sample Number	RIN	Analyte	Result Type	Std Result	Std Unit
1786	02/12/04	GW11265ST	GEL	312347	1200575670	04D0391	COBALT	MS1	93.2	%REC
1786	02/12/04	GW11265ST	GEL	312347	1200575670	04D0391	COPPER	MS1	94.2	%REC
1786	02/12/04	GW11265ST	GEL	312347	1200575670	04D0391	IRON	MS1	102	%REC
1786	02/12/04	GW11265ST	GEL	312347	1200575670	04D0391	LEAD	MS1	90.8	%REC
1786	02/12/04	GW11265ST	GEL	312347	1200575670	04D0391	LITHIUM	MS1	90	%REC
1786	02/12/04	GW11265ST	GEL	312347	1200575670	04D0391	MAGNESIUM	MS1	250	%REC
1786	02/12/04	GW11265ST	GEL	312347	1200575670	04D0391	MANGANESE	MS1	96.8	%REC
1786	02/12/04	GW11265ST	GEL	312347	1200575670	04D0391	MOLYBDENUM	MS1	105.3	%REC
1786	02/12/04	GW11265ST	GEL	312347	1200575670	04D0391	NICKEL	MS1	93.6	%REC
1786	02/12/04	GW11265ST	GEL	312347	1200575670	04D0391	POTASSIUM	MS1	110.5	%REC
1786	02/12/04	GW11265ST	GEL	312347	1200575670	04D0391	SELENIUM	MS1	98	%REC
1786	02/12/04	GW11265ST	GEL	312347	1200575670	04D0391	SILVER	MS1	102.8	%REC
1786	02/12/04	GW11265ST	GEL	312347	1200575670	04D0391	SODIUM	MS1	500	%REC
1786	02/12/04	GW11265ST	GEL	312347	1200575670	04D0391	STRONTIUM	MS1	200	%REC
1786	02/12/04	GW11265ST	GEL	312347	1200575670	04D0391	THALLIUM	MS1	85.3	%REC
1786	02/12/04	GW11265ST	GEL	312347	1200575670	04D0391	TIN	MS1	99.4	%REC
1786	02/12/04	GW11265ST	GEL	312347	1200575670	04D0391	URANIUM, TOTAL	MS1	88.6	%REC
1786	02/12/04	GW11265ST	GEL	312347	1200575670	04D0391	VANADIUM	MS1	90.4	%REC
1786	02/12/04	GW11265ST	GEL	312347	1200575670	04D0391	ZINC	MS1	90.4	%REC
01697	03/16/04	GW11278ST	STLDEN	4079468	D4C180357-002S	04D0460	ALUMINUM	MS1	116	%REC
01697	03/16/04	GW11278ST	STLDEN	4079468	D4C180357-002D	04D0460	ALUMINUM	MD1	116	%REC
01697	03/16/04	GW11278ST	STLDEN	4079468	D4C180357-002S	04D0460	ANTIMONY	MS1	100	%REC
01697	03/16/04	GW11278ST	STLDEN	4079468	D4C180357-002D	04D0460	ANTIMONY	MD1	103	%REC
01697	03/16/04	GW11278ST	STLDEN	4079468	D4C180357-002S	04D0460	ARSENIC	MS1	101	%REC
01697	03/16/04	GW11278ST	STLDEN	4079468	D4C180357-002D	04D0460	ARSENIC	MD1	104	%REC
01697	03/16/04	GW11278ST	STLDEN	4079468	D4C180357-002S	04D0460	BARIUM	MS1	101	%REC
01697	03/16/04	GW11278ST	STLDEN	4079468	D4C180357-002D	04D0460	BARIUM	MD1	104	%REC
01697	03/16/04	GW11278ST	STLDEN	4079468	D4C180357-002S	04D0460	BERYLLIUM	MS1	94	%REC
01697	03/16/04	GW11278ST	STLDEN	4079468	D4C180357-002D	04D0460	BERYLLIUM	MD1	97	%REC
01697	03/16/04	GW11278ST	STLDEN	4079468	D4C180357-002S	04D0460	CADMIUM	MS1	94	%REC
01697	03/16/04	GW11278ST	STLDEN	4079468	D4C180357-002D	04D0460	CADMIUM	MD1	98	%REC
01697	03/16/04	GW11278ST	STLDEN	4079468	D4C180357-002S	04D0460	CHROMIUM	MS1	98	%REC
01697	03/16/04	GW11278ST	STLDEN	4079468	D4C180357-002D	04D0460	CHROMIUM	MD1	102	%REC

Location	Sample Date	Sample Number	Lab	Lab Batch	Lab Sample Number	RIN	Analyte	Result Type	Std Result	Std Unit
01697	03/16/04	GW11278ST	STLDEN	4079468	D4C180357-002S	04D0460	COBALT	MSI	97	%REC
01697	03/16/04	GW11278ST	STLDEN	4079468	D4C180357-002D	04D0460	COBALT	MDI	100	%REC
01697	03/16/04	GW11278ST	STLDEN	4079468	D4C180357-002S	04D0460	COPPER	MSI	95	%REC
01697	03/16/04	GW11278ST	STLDEN	4079468	D4C180357-002D	04D0460	COPPER	MDI	98	%REC
01697	03/16/04	GW11278ST	STLDEN	4079468	D4C180357-002S	04D0460	LEAD	MSI	99	%REC
01697	03/16/04	GW11278ST	STLDEN	4079468	D4C180357-002D	04D0460	LEAD	MDI	103	%REC
01697	03/16/04	GW11278ST	STLDEN	4079468	D4C180357-002S	04D0460	MANGANESE	MSI	98	%REC
01697	03/16/04	GW11278ST	STLDEN	4079468	D4C180357-002D	04D0460	MANGANESE	MDI	101	%REC
01697	03/16/04	GW11278ST	STLDEN	4079468	D4C180357-002S	04D0460	MOLYBDENUM	MSI	95	%REC
01697	03/16/04	GW11278ST	STLDEN	4079468	D4C180357-002D	04D0460	MOLYBDENUM	MDI	99	%REC
01697	03/16/04	GW11278ST	STLDEN	4079468	D4C180357-002S	04D0460	NICKEL	MSI	100	%REC
01697	03/16/04	GW11278ST	STLDEN	4079468	D4C180357-002D	04D0460	NICKEL	MDI	103	%REC
01697	03/16/04	GW11278ST	STLDEN	4079468	D4C180357-002S	04D0460	SELENIUM	MSI	109	%REC
01697	03/16/04	GW11278ST	STLDEN	4079468	D4C180357-002D	04D0460	SELENIUM	MDI	112	%REC
01697	03/16/04	GW11278ST	STLDEN	4079468	D4C180357-002S	04D0460	SILVER	MSI	101	%REC
01697	03/16/04	GW11278ST	STLDEN	4079468	D4C180357-002D	04D0460	SILVER	MDI	104	%REC
01697	03/16/04	GW11278ST	STLDEN	4079468	D4C180357-002S	04D0460	STRONTIUM	MSI	97	%REC
01697	03/16/04	GW11278ST	STLDEN	4079468	D4C180357-002D	04D0460	STRONTIUM	MDI	101	%REC
01697	03/16/04	GW11278ST	STLDEN	4079468	D4C180357-002S	04D0460	THALLIUM	MSI	100	%REC
01697	03/16/04	GW11278ST	STLDEN	4079468	D4C180357-002D	04D0460	THALLIUM	MDI	103	%REC
01697	03/16/04	GW11278ST	STLDEN	4079468	D4C180357-002S	04D0460	TIN	MSI	92	%REC
01697	03/16/04	GW11278ST	STLDEN	4079468	D4C180357-002D	04D0460	TIN	MDI	95	%REC
01697	03/16/04	GW11278ST	STLDEN	4079468	D4C180357-002S	04D0460	URANIUM, TOTAL	MSI	100	%REC
01697	03/16/04	GW11278ST	STLDEN	4079468	D4C180357-002D	04D0460	URANIUM, TOTAL	MDI	103	%REC
01697	03/16/04	GW11278ST	STLDEN	4079468	D4C180357-002S	04D0460	VANADIUM	MSI	99	%REC
01697	03/16/04	GW11278ST	STLDEN	4079468	D4C180357-002D	04D0460	VANADIUM	MDI	102	%REC
01697	03/16/04	GW11278ST	STLDEN	4079468	D4C180357-002S	04D0460	ZINC	MSI	99	%REC
01697	03/16/04	GW11278ST	STLDEN	4079468	D4C180357-002D	04D0460	ZINC	MDI	103	%REC
P416689	03/16/04	GW11282ST	STLDEN	4079476	D4C180357-001S	04D0460	CALCIUM	MSI	95	%REC
P416689	03/16/04	GW11282ST	STLDEN	4079476	D4C180357-001D	04D0460	CALCIUM	MDI	110	%REC
P416689	03/16/04	GW11282ST	STLDEN	4079476	D4C180357-001S	04D0460	IRON	MSI	100	%REC
P416689	03/16/04	GW11282ST	STLDEN	4079476	D4C180357-001D	04D0460	IRON	MDI	114	%REC
P416689	03/16/04	GW11282ST	STLDEN	4079476	D4C180357-001S	04D0460	LITHIUM	MSI	104	%REC

Location	Sample Date	Sample Number	Lab	Lab Batch	Lab Sample Number	RIN	Analyte	Result Type	Std Result	Std Unit
P416689	03/16/04	GW11282ST	STLDEN	4079476	D4C180357-001D	04D0460	LITHIUM	MDI	105	%REC
P416689	03/16/04	GW11282ST	STLDEN	4079476	D4C180357-001S	04D0460	MAGNESIUM	MSI	100	%REC
P416689	03/16/04	GW11282ST	STLDEN	4079476	D4C180357-001D	04D0460	MAGNESIUM	MDI	104	%REC
P416689	03/16/04	GW11282ST	STLDEN	4079476	D4C180357-001S	04D0460	POTASSIUM	MSI	102	%REC
P416689	03/16/04	GW11282ST	STLDEN	4079476	D4C180357-001D	04D0460	POTASSIUM	MDI	104	%REC
P416689	03/16/04	GW11282ST	STLDEN	4079476	D4C180357-001S	04D0460	SODIUM	MSI	97	%REC
P416689	03/16/04	GW11282ST	STLDEN	4079476	D4C180357-001D	04D0460	SODIUM	MDI	104	%REC
			STLDEN	4082219	D4C180347-002D	04D0460	MERCURY	MDI	38	%REC
			STLDEN	4082219	D4C180347-002S	04D0460	MERCURY	MSI	60	%REC
10394	03/18/04	GW11280ST	STLDEN	4091368	D4C230316-001D	04D0468	MERCURY	MDI	102	%REC
10394	03/18/04	GW11280ST	STLDEN	4091368	D4C230316-001S	04D0468	MERCURY	MSI	104	%REC
			STLDEN	4091623	D4C310317-004D	04D0468	CALCIUM	MDI	97	%REC
			STLDEN	4091623	D4C310317-004S	04D0468	CALCIUM	MSI	98	%REC
			STLDEN	4091623	D4C310317-004S	04D0468	IRON	MSI	35	%REC
			STLDEN	4091623	D4C310317-004D	04D0468	IRON	MDI	64	%REC
			STLDEN	4091623	D4C310317-004D	04D0468	LITHIUM	MDI	103	%REC
			STLDEN	4091623	D4C310317-004S	04D0468	LITHIUM	MSI	104	%REC
			STLDEN	4091623	D4C310317-004D	04D0468	MAGNESIUM	MDI	98	%REC
			STLDEN	4091623	D4C310317-004S	04D0468	MAGNESIUM	MSI	99	%REC
			STLDEN	4091623	D4C310317-004D	04D0468	POTASSIUM	MDI	112	%REC
			STLDEN	4091623	D4C310317-004S	04D0468	POTASSIUM	MSI	114	%REC
			STLDEN	4091623	D4C310317-004S	04D0468	SODIUM	MSI	102	%REC
			STLDEN	4091623	D4C310317-004D	04D0468	SODIUM	MDI	102	%REC
			STLDEN	4091623	D4C310317-004D	04D0468	ZINC	MDI	0	%REC
			STLDEN	4091623	D4C310317-004S	04D0468	ZINC	MSI	19	%REC
			STLDEN	4091625	D4C310331-004D	04D0468	ALUMINUM	MDI	1000	%REC
			STLDEN	4091625	D4C310331-004S	04D0468	ALUMINUM	MSI	1230	%REC
			STLDEN	4091625	D4C310331-004S	04D0468	ANTIMONY	MSI	43	%REC
			STLDEN	4091625	D4C310331-004D	04D0468	ANTIMONY	MDI	48	%REC
			STLDEN	4091625	D4C310331-004S	04D0468	ARSENIC	MSI	64	%REC
			STLDEN	4091625	D4C310331-004D	04D0468	ARSENIC	MDI	64	%REC
			STLDEN	4091625	D4C310331-004S	04D0468	BARIUM	MSI	288	%REC
			STLDEN	4091625	D4C310331-004D	04D0468	BARIUM	MDI	310	%REC

Location	Sample Date	Sample Number	Lab	Lab Batch	Lab Sample Number	RIN	Analyte	Result Type	Std Result	Std Unit
			STLDEN	4091625	D4C310331-004D	04D0468	BERYLLIUM	MDI	61	%REC
			STLDEN	4091625	D4C310331-004S	04D0468	BERYLLIUM	MSI	62	%REC
			STLDEN	4091625	D4C310331-004D	04D0468	CADMIUM	MDI	145	%REC
			STLDEN	4091625	D4C310331-004S	04D0468	CADMIUM	MSI	154	%REC
			STLDEN	4091625	D4C310331-004D	04D0468	CHROMIUM	MDI	92	%REC
			STLDEN	4091625	D4C310331-004S	04D0468	CHROMIUM	MSI	125	%REC
			STLDEN	4091625	D4C310331-004D	04D0468	COBALT	MDI	77	%REC
			STLDEN	4091625	D4C310331-004S	04D0468	COBALT	MSI	79	%REC
			STLDEN	4091625	D4C310331-004D	04D0468	COPPER	MDI	232	%REC
			STLDEN	4091625	D4C310331-004S	04D0468	COPPER	MSI	337	%REC
			STLDEN	4091625	D4C310331-004D	04D0468	LEAD	MDI	152	%REC
			STLDEN	4091625	D4C310331-004S	04D0468	LEAD	MSI	171	%REC
			STLDEN	4091625	D4C310331-004D	04D0468	MANGANESE	MDI	160	%REC
			STLDEN	4091625	D4C310331-004S	04D0468	MANGANESE	MSI	170	%REC
			STLDEN	4091625	D4C310331-004S	04D0468	MOLYBDENUM	MSI	91	%REC
			STLDEN	4091625	D4C310331-004D	04D0468	MOLYBDENUM	MDI	95	%REC
			STLDEN	4091625	D4C310331-004D	04D0468	NICKEL	MDI	76	%REC
			STLDEN	4091625	D4C310331-004S	04D0468	NICKEL	MSI	83	%REC
			STLDEN	4091625	D4C310331-004S	04D0468	SELENIUM	MSI	65	%REC
			STLDEN	4091625	D4C310331-004D	04D0468	SELENIUM	MDI	66	%REC
			STLDEN	4091625	D4C310331-004D	04D0468	SILVER	MDI	86	%REC
			STLDEN	4091625	D4C310331-004S	04D0468	SILVER	MSI	88	%REC
			STLDEN	4091625	D4C310331-004D	04D0468	STRONTIUM	MDI	113	%REC
			STLDEN	4091625	D4C310331-004S	04D0468	STRONTIUM	MSI	115	%REC
			STLDEN	4091625	D4C310331-004S	04D0468	THALLIUM	MSI	56	%REC
			STLDEN	4091625	D4C310331-004D	04D0468	THALLIUM	MDI	56	%REC
			STLDEN	4091625	D4C310331-004S	04D0468	TIN	MSI	96	%REC
			STLDEN	4091625	D4C310331-004D	04D0468	TIN	MDI	101	%REC
			STLDEN	4091625	D4C310331-004D	04D0468	URANIUM, TOTAL	MDI	59	%REC
			STLDEN	4091625	D4C310331-004S	04D0468	URANIUM, TOTAL	MSI	60	%REC
			STLDEN	4091625	D4C310331-004D	04D0468	VANADIUM	MDI	69	%REC
			STLDEN	4091625	D4C310331-004S	04D0468	VANADIUM	MSI	70	%REC
B206989	01/07/04	GW11264ST	GEL	303642	I200555220	04D0324	1,1-DICHLOROETHENE	MSI	84	%REC

Location	Sample Date	Sample Number	Lab	Lab Batch	Lab Sample Number	RIN	Analyte	Result Type	Std Result	Std Unit
B206989	01/07/04	GW11264ST	GEL	303642	1200555222	04D0324	1,1-DICHLOROETHENE	MD1	86	%REC
B206989	01/07/04	GW11264ST	GEL	303642	1200555222	04D0324	BENZENE	MD1	93	%REC
B206989	01/07/04	GW11264ST	GEL	303642	1200555220	04D0324	BENZENE	MS1	94	%REC
B206989	01/07/04	GW11264ST	GEL	303642	1200555220	04D0324	CHLOROBENZENE	MS1	95	%REC
B206989	01/07/04	GW11264ST	GEL	303642	1200555222	04D0324	CHLOROBENZENE	MD1	99	%REC
B206989	01/07/04	GW11264ST	GEL	303642	1200555220	04D0324	TOLUENE	MS1	93	%REC
B206989	01/07/04	GW11264ST	GEL	303642	1200555222	04D0324	TOLUENE	MD1	95	%REC
B206989	01/07/04	GW11264ST	GEL	303642	1200555220	04D0324	TRICHLOROETHENE	MS1	95	%REC
B206989	01/07/04	GW11264ST	GEL	303642	1200555222	04D0324	TRICHLOROETHENE	MD1	96	%REC
70393	01/12/04	GW11262ST	GEL	305270	1200558888	04D0329	1,1-DICHLOROETHENE	MD1	91	%REC
70393	01/12/04	GW11262ST	GEL	305270	1200558887	04D0329	1,1-DICHLOROETHENE	MS1	92	%REC
70393	01/12/04	GW11262ST	GEL	305270	1200558887	04D0329	BENZENE	MS1	99	%REC
70393	01/12/04	GW11262ST	GEL	305270	1200558888	04D0329	BENZENE	MD1	103	%REC
70393	01/12/04	GW11262ST	GEL	305270	1200558888	04D0329	CHLOROBENZENE	MD1	105	%REC
70393	01/12/04	GW11262ST	GEL	305270	1200558887	04D0329	CHLOROBENZENE	MS1	105	%REC
70393	01/12/04	GW11262ST	GEL	305270	1200558887	04D0329	TOLUENE	MS1	102	%REC
70393	01/12/04	GW11262ST	GEL	305270	1200558888	04D0329	TOLUENE	MD1	105	%REC
70393	01/12/04	GW11262ST	GEL	305270	1200558887	04D0329	TRICHLOROETHENE	MS1	97	%REC
70393	01/12/04	GW11262ST	GEL	305270	1200558888	04D0329	TRICHLOROETHENE	MD1	99	%REC
			STLDEN	4041330	D3J010124-164D	04D0384	1,1-DICHLOROETHENE	MD1	103	%REC
			STLDEN	4041330	D3J010124-164S	04D0384	1,1-DICHLOROETHENE	MS1	118	%REC
			STLDEN	4041330	D3J010124-164D	04D0384	BENZENE	MD1	101	%REC
			STLDEN	4041330	D3J010124-164S	04D0384	BENZENE	MS1	109	%REC
			STLDEN	4041330	D3J010124-164D	04D0384	CHLOROBENZENE	MD1	89	%REC
			STLDEN	4041330	D3J010124-164S	04D0384	CHLOROBENZENE	MS1	105	%REC
			STLDEN	4041330	D3J010124-164D	04D0384	TOLUENE	MD1	95	%REC
			STLDEN	4041330	D3J010124-164S	04D0384	TOLUENE	MS1	105	%REC
			STLDEN	4041330	D3J010124-164D	04D0384	TRICHLOROETHENE	MD1	103	%REC
			STLDEN	4041330	D3J010124-164S	04D0384	TRICHLOROETHENE	MS1	114	%REC
			STLDEN	4042465	D4A290236-003D	04D0372	1,1-DICHLOROETHENE	MD1	86	%REC
			STLDEN	4042465	D4A290236-003S	04D0372	1,1-DICHLOROETHENE	MS1	87	%REC
			STLDEN	4042465	D4A290236-003D	04D0372	BENZENE	MD1	109	%REC
			STLDEN	4042465	D4A290236-003S	04D0372	BENZENE	MS1	111	%REC

Location	Sample Date	Sample Number	Lab	Lab Batch	Lab Sample Number	RIN	Analyte	Result Type	Std Result	Std Unit
			STLDEN	4042465	D4A290236-003D	04D0372	CHLOROBENZENE	MDI	99	%REC
			STLDEN	4042465	D4A290236-003S	04D0372	CHLOROBENZENE	MSI	100	%REC
			STLDEN	4042465	D4A290236-003D	04D0372	TOLUENE	MDI	106	%REC
			STLDEN	4042465	D4A290236-003S	04D0372	TOLUENE	MSI	109	%REC
			STLDEN	4042465	D4A290236-003D	04D0372	TRICHLOROETHENE	MDI	99	%REC
			STLDEN	4042465	D4A290236-003S	04D0372	TRICHLOROETHENE	MSI	101	%REC
			STLDEN	4048604	D4B060262-001D	04D0383	1,1-DICHLOROETHENE	MDI	78	%REC
			STLDEN	4048604	D4B060262-001S	04D0383	1,1-DICHLOROETHENE	MSI	78	%REC
			STLDEN	4048604	D4B060262-001D	04D0383	BENZENE	MDI	104	%REC
			STLDEN	4048604	D4B060262-001S	04D0383	BENZENE	MSI	104	%REC
			STLDEN	4048604	D4B060262-001S	04D0383	CHLOROBENZENE	MSI	107	%REC
			STLDEN	4048604	D4B060262-001D	04D0383	CHLOROBENZENE	MDI	108	%REC
			STLDEN	4048604	D4B060262-001D	04D0383	TOLUENE	MDI	100	%REC
			STLDEN	4048604	D4B060262-001S	04D0383	TOLUENE	MSI	100	%REC
			STLDEN	4048604	D4B060262-001D	04D0383	TRICHLOROETHENE	MDI	114	%REC
			STLDEN	4048604	D4B060262-001S	04D0383	TRICHLOROETHENE	MSI	115	%REC
			STLDEN	4072553	D4B260316-001S	04D0429	1,1-DICHLOROETHENE	MSI	78	%REC
			STLDEN	4072553	D4B260316-001D	04D0429	1,1-DICHLOROETHENE	MDI	78	%REC
			STLDEN	4072553	D4B260316-001S	04D0429	BENZENE	MSI	95	%REC
			STLDEN	4072553	D4B260316-001D	04D0429	BENZENE	MDI	96	%REC
			STLDEN	4072553	D4B260316-001S	04D0429	CHLOROBENZENE	MSI	107	%REC
			STLDEN	4072553	D4B260316-001D	04D0429	CHLOROBENZENE	MDI	111	%REC
			STLDEN	4072553	D4B260316-001S	04D0429	TOLUENE	MSI	104	%REC
			STLDEN	4072553	D4B260316-001D	04D0429	TOLUENE	MDI	107	%REC
			STLDEN	4072553	D4B260316-001S	04D0429	TRICHLOROETHENE	MSI	97	%REC
			STLDEN	4072553	D4B260316-001D	04D0429	TRICHLOROETHENE	MDI	100	%REC
			STLDEN	4094093	D4B270119-078S	04D0466	1,1-DICHLOROETHENE	MSI	79	%REC
			STLDEN	4094093	D4B270119-078D	04D0466	1,1-DICHLOROETHENE	MDI	80	%REC
			STLDEN	4094093	D4B270119-078D	04D0466	BENZENE	MDI	100	%REC
			STLDEN	4094093	D4B270119-078S	04D0466	BENZENE	MSI	101	%REC
			STLDEN	4094093	D4B270119-078S	04D0466	CHLOROBENZENE	MSI	100	%REC
			STLDEN	4094093	D4B270119-078D	04D0466	CHLOROBENZENE	MDI	105	%REC
			STLDEN	4094093	D4B270119-078S	04D0466	TOLUENE	MSI	96	%REC

Location	Sample Date	Sample Number	Lab	Lab Batch	Lab Sample Number	RIN	Analyte	Result Type	Std Result	Std Unit
			STLDEN	4094093	D4B270119-078D	04D0466	TOLUENE	MD1	98	%REC
			STLDEN	4094093	D4B270119-078S	04D0466	TRICHLOROETHENE	MS1	103	%REC
			STLDEN	4094093	D4B270119-078D	04D0466	TRICHLOROETHENE	MD1	108	%REC
			STLDEN	4096650	D4C260239-013D	04D0466	1,1-DICHLOROETHENE	MD2	110	%REC
			STLDEN	4096650	D4C260239-013S	04D0466	1,1-DICHLOROETHENE	MS2	115	%REC
			STLDEN	4096650	D4C260239-013D	04D0466	BENZENE	MD2	100	%REC
			STLDEN	4096650	D4C260239-013S	04D0466	BENZENE	MS2	105	%REC
			STLDEN	4096650	D4C260239-013D	04D0466	CHLOROBENZENE	MD2	96	%REC
			STLDEN	4096650	D4C260239-013S	04D0466	CHLOROBENZENE	MS2	101	%REC
			STLDEN	4096650	D4C260239-013D	04D0466	TOLUENE	MD2	92	%REC
			STLDEN	4096650	D4C260239-013S	04D0466	TOLUENE	MS2	96	%REC
			STLDEN	4100590	D4B270119-089S	04D0487	1,1-DICHLOROETHENE	MS1	108	%REC
			STLDEN	4100590	D4B270119-089D	04D0487	1,1-DICHLOROETHENE	MD1	111	%REC
			STLDEN	4100590	D4B270119-089S	04D0487	BENZENE	MS1	98	%REC
			STLDEN	4100590	D4B270119-089D	04D0487	BENZENE	MD1	98	%REC
			STLDEN	4100590	D4B270119-089S	04D0487	CHLOROBENZENE	MS1	98	%REC
			STLDEN	4100590	D4B270119-089D	04D0487	CHLOROBENZENE	MD1	101	%REC
			STLDEN	4100590	D4B270119-089S	04D0487	TOLUENE	MS1	102	%REC
			STLDEN	4100590	D4B270119-089D	04D0487	TOLUENE	MD1	102	%REC
			STLDEN	4100590	D4B270119-089S	04D0487	TRICHLOROETHENE	MS1	98	%REC
			STLDEN	4100590	D4B270119-089D	04D0487	TRICHLOROETHENE	MD1	99	%REC
5887	01/09/04	GW11256ST	GEL	303168	1200554367	04D0324	FLUORIDE	MS1	94	%REC
B206989	01/07/04	GW11264ST	GEL	306844	1200562445	04D0324	NITRATE/NITRITE	MS2	98	%REC
B206989	01/07/04	GW11264ST	GEL	306844	1200562445	04D0329	NITRATE/NITRITE	MS1	98	%REC
5887	01/09/04	GW11256ST	GEL	303168	1200554367	04D0324	SULFATE	MS1	102	%REC
70393	01/12/04	GW11262ST	GEL	304559	1200557220	04D0329	FLUORIDE	MS1	104	%REC
70393	01/12/04	GW11262ST	GEL	304559	1200557220	04D0329	SULFATE	MS1	112	%REC

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Table 5-6. Summary of MS & MSD Recovery Data.

Analyte Group	Total Number of MS & MSD Results	Number of Low Results Below	Number of High Results Above 125%	Number Acceptable	Percentage Acceptable	Goal Met
Metal	196	24	17	155	79.08	No
VOC	88	0	0	88	100	Yes
WQP	6	0	0	6	100	Yes
	Total Results	Total Low	Total High	Total Acceptable	Total % Acceptable	Goal Met
Totals	290	24	17	249	85.86	No (overall)

Table Notes:

MS is matrix spike and MSD is matrix spike duplicate sample.

VOC indicates volatile organic compounds.

WQP indicates water quality parameters.

Relative bias values are used instead of matrix spikes for evaluating radionuclide accuracy.

Table 5-7. Lab Control Sample (LCS) Data for Radionuclides.

Result Type	Lab	Lab Batch	Lab Sample Number	Analyte	Result	Units	Error	Relative Bias	RIN
LC1	GEL	304553	1200557206	URANIUM-238	57.9	PCI/L	9.04	-0.0676	04D0329
LC1	GEL	313696	1200578854	URANIUM-238	12.2	PCI/L	2.25	-0.0161	04D0391
LC1	GEL	303794	1200555558	URANIUM-238	61.3	PCI/L	9.22	0.005	04D0324

Table 5-8. Lab Control Sample (LCS) Data for Non-Radionuclides.

Result Type	Group	LIC	RIN	Lab	Lab Sample Number	Analyte	Result	Units
LC1	Metal	MET-A-013	04D0329	GEL	1200556581	VANADIUM	91.2	%REC
LC1	Metal	MET-A-013	04D0391	GEL	1200575668	VANADIUM	91.4	%REC
LC1	Metal	MET-A-013	04D0460	STLDEN	D4C190000-468C	TIN	92	%REC
LC1	Metal	MET-A-013	04D0391	GEL	1200575668	BARIIUM	93.2	%REC
LC1	Metal	MET-A-013	04D0391	GEL	1200575668	THALLIUM	93.6	%REC
LC1	Metal	MET-A-013	04D0391	GEL	1200575668	MAGNESIUM	94.5	%REC
LC1	Metal	MET-A-013	04D0460	STLDEN	D4C190000-468C	COPPER	95	%REC
LC1	Metal	MET-A-013	04D0391	GEL	1200575668	SELENIUM	95	%REC
LC1	Metal	MET-A-013	04D0324	GEL	1200555498	THALLIUM	96.6	%REC
LC1	Metal	MET-A-013	04D0460	STLDEN	D4C190000-468C	MOLYBDENUM	97	%REC
LC1	Metal	MET-A-013	04D0329	GEL	1200556581	LITHIUM	97.2	%REC
LC1	Metal	MET-A-013	04D0468	STLDEN	D4C310000-623C	SODIUM	98	%REC
LC1	Metal	MET-A-013	04D0468	STLDEN	D4C310000-368C	MERCURY	98	%REC
LC1	Metal	MET-A-013	04D0460	STLDEN	D4C220000-219C	MERCURY	98	%REC
LC1	Metal	MET-A-013	04D0329	GEL	1200556581	MAGNESIUM	98	%REC
LC1	Metal	MET-A-013	04D0468	STLDEN	D4C310000-625C	TIN	99	%REC
LC1	Metal	MET-A-013	04D0468	STLDEN	D4C310000-623C	CALCIUM	99	%REC
LC1	Metal	MET-A-013	04D0460	STLDEN	D4C190000-468C	BERYLLIUM	99	%REC
LC1	Metal	MET-A-013	04D0391	GEL	1200575668	SODIUM	99	%REC
LC1	Metal	MET-A-013	04D0460	STLDEN	D4C190000-468C	CADMIUM	99	%REC
LC1	Metal	MET-A-013	04D0324	GEL	1200563384	VANADIUM	99.2	%REC
LC1	Metal	MET-A-013	04D0391	GEL	1200575668	TIN	99.2	%REC
LC1	Metal	MET-A-013	04D0391	GEL	1200575668	POTASSIUM	99.5	%REC
LC1	Metal	MET-A-013	04D0468	STLDEN	D4C310000-623C	IRON	100	%REC
LC1	Metal	MET-A-013	04D0460	STLDEN	D4C190000-468C	ALUMINUM	100	%REC
LC1	Metal	MET-A-013	04D0468	STLDEN	D4C310000-623C	ZINC	100	%REC
LC1	Metal	MET-A-013	04D0391	GEL	1200575668	LEAD	100.8	%REC
LC1	Metal	MET-A-013	04D0460	STLDEN	D4C190000-476C	SODIUM	101	%REC
LC1	Metal	MET-A-013	04D0460	STLDEN	D4C190000-468C	COBALT	101	%REC
LC1	Metal	MET-A-013	04D0460	STLDEN	D4C190000-476C	CALCIUM	101	%REC
LC1	Metal	MET-A-013	04D0460	STLDEN	D4C190000-468C	ANTIMONY	101	%REC

Result Type	Group	LIC	RIN	Lab	Lab Sample Number	Analyte	Result	Units
LC1	Metal	MET-A-013	04D0460	STLDEN	D4C190000-468C	THALLIUM	101	%REC
LC1	Metal	MET-A-013	04D0460	STLDEN	D4C190000-476C	POTASSIUM	101	%REC
LC1	Metal	MET-A-013	04D0468	STLDEN	D4C310000-623C	MAGNESIUM	101	%REC
LC1	Metal	MET-A-013	04D0468	STLDEN	D4C310000-623C	POTASSIUM	101	%REC
LC1	Metal	MET-A-013	04D0324	GEL	1200555498	SODIUM	101	%REC
LC1	Metal	MET-A-013	04D0468	STLDEN	D4C310000-625C	CADMIUM	101	%REC
LC1	Metal	MET-A-013	04D0391	GEL	1200575668	ANTIMONY	101.4	%REC
LC1	Metal	MET-A-013	04D0391	GEL	1200575668	CALCIUM	101.5	%REC
LC1	Metal	MET-A-013	04D0324	GEL	1200563384	ZINC	101.8	%REC
LC1	Metal	MET-A-013	04D0460	STLDEN	D4C190000-468C	STRONTIUM	102	%REC
LC1	Metal	MET-A-013	04D0391	GEL	1200575668	ARSENIC	102	%REC
LC1	Metal	MET-A-013	04D0460	STLDEN	D4C190000-476C	IRON	102	%REC
LC1	Metal	MET-A-013	04D0329	GEL	1200556491	MERCURY	102	%REC
LC1	Metal	MET-A-013	04D0324	GEL	1200563384	SELENIUM	102	%REC
LC1	Metal	MET-A-013	04D0468	STLDEN	D4C310000-623C	LITHIUM	102	%REC
LC1	Metal	MET-A-013	04D0468	STLDEN	D4C310000-625C	COPPER	102	%REC
LC1	Metal	MET-A-013	04D0460	STLDEN	D4C190000-468C	LEAD	102	%REC
LC1	Metal	MET-A-013	04D0460	STLDEN	D4C190000-476C	MAGNESIUM	102	%REC
LC1	Metal	MET-A-013	04D0329	GEL	1200556581	THALLIUM	102.2	%REC
LC1	Metal	MET-A-013	04D0324	GEL	1200563384	COBALT	102.4	%REC
LC1	Metal	MET-A-013	04D0391	GEL	1200575668	CADMIUM	102.4	%REC
LC1	Metal	MET-A-013	04D0324	GEL	1200555498	MOLYBDENUM	102.6	%REC
LC1	Metal	MET-A-013	04D0324	GEL	1200555498	LEAD	102.8	%REC
LC1	Metal	MET-A-013	04D0391	GEL	1200575668	ZINC	103	%REC
LC1	Metal	MET-A-013	04D0460	STLDEN	D4C190000-468C	MANGANESE	103	%REC
LC1	Metal	MET-A-013	04D0460	STLDEN	D4C190000-468C	SILVER	103	%REC
LC1	Metal	MET-A-013	04D0460	STLDEN	D4C190000-468C	NICKEL	103	%REC
LC1	Metal	MET-A-013	04D0329	GEL	1200556581	POTASSIUM	103	%REC
LC1	Metal	MET-A-013	04D0329	GEL	1200556581	SODIUM	103	%REC
LC1	Metal	MET-A-013	04D0391	GEL	1200575340	MERCURY	103	%REC
LC1	Metal	MET-A-013	04D0460	STLDEN	D4C190000-468C	URANIUM, TOTAL	103	%REC
LC1	Metal	MET-A-013	04D0460	STLDEN	D4C190000-468C	VANADIUM	103	%REC

Result Type	Group	LIC	RIN	Lab	Lab Sample Number	Analyte	Result	Units
LC1	Metal	MET-A-013	04D0460	STLDEN	D4C190000-468C	BARIUM	103	%REC
LC1	Metal	MET-A-013	04D0460	STLDEN	D4C190000-468C	CHROMIUM	103	%REC
LC1	Metal	MET-A-013	04D0324	GEL	1200563384	MAGNESIUM	103	%REC
LC1	Metal	MET-A-013	04D0468	STLDEN	D4C310000-625C	ALUMINUM	103	%REC
LC1	Metal	MET-A-013	04D0324	GEL	1200555498	TIN	103.2	%REC
LC1	Metal	MET-A-013	04D0391	GEL	1200575668	URANIUM, TOTAL	103.4	%REC
LC1	Metal	MET-A-013	04D0329	GEL	1200556581	BARIUM	103.8	%REC
LC1	Metal	MET-A-013	04D0468	STLDEN	D4C310000-625C	NICKEL	104	%REC
LC1	Metal	MET-A-013	04D0460	STLDEN	D4C190000-468C	ARSENIC	104	%REC
LC1	Metal	MET-A-013	04D0460	STLDEN	D4C190000-476C	LITHIUM	104	%REC
LC1	Metal	MET-A-013	04D0468	STLDEN	D4C310000-625C	BERYLLIUM	104	%REC
LC1	Metal	MET-A-013	04D0468	STLDEN	D4C310000-625C	COBALT	104	%REC
LC1	Metal	MET-A-013	04D0468	STLDEN	D4C310000-625C	MOLYBDENUM	104	%REC
LC1	Metal	MET-A-013	04D0468	STLDEN	D4C310000-625C	VANADIUM	104	%REC
LC1	Metal	MET-A-013	04D0391	GEL	1200575668	MOLYBDENUM	104	%REC
LC1	Metal	MET-A-013	04D0460	STLDEN	D4C190000-468C	ZINC	104	%REC
LC1	Metal	MET-A-013	04D0324	GEL	1200555498	LITHIUM	104.2	%REC
LC1	Metal	MET-A-013	04D0324	GEL	1200555498	STRONTIUM	104.8	%REC
LC1	Metal	MET-A-013	04D0324	GEL	1200555498	CADMIUM	104.8	%REC
LC1	Metal	MET-A-013	04D0324	GEL	1200555498	URANIUM, TOTAL	105	%REC
LC1	Metal	MET-A-013	04D0391	GEL	1200575668	CHROMIUM	105.4	%REC
LC1	Metal	MET-A-013	04D0324	GEL	1200563384	IRON	105.5	%REC
LC1	Metal	MET-A-013	04D0324	GEL	1200563384	NICKEL	105.6	%REC
LC1	Metal	MET-A-013	04D0324	GEL	1200555498	ANTIMONY	105.8	%REC
LC1	Metal	MET-A-013	04D0329	GEL	1200556581	SELENIUM	106	%REC
LC1	Metal	MET-A-013	04D0468	STLDEN	D4C310000-625C	LEAD	106	%REC
LC1	Metal	MET-A-013	04D0468	STLDEN	D4C310000-625C	ANTIMONY	106	%REC
LC1	Metal	MET-A-013	04D0468	STLDEN	D4C310000-625C	THALLIUM	106	%REC
LC1	Metal	MET-A-013	04D0324	GEL	1200563384	CHROMIUM	106.2	%REC
LC1	Metal	MET-A-013	04D0324	GEL	1200555498	BARIUM	106.2	%REC
LC1	Metal	MET-A-013	04D0329	GEL	1200556581	ZINC	106.4	%REC
LC1	Metal	MET-A-013	04D0329	GEL	1200556581	CADMIUM	106.4	%REC

Result Type	Group	LIC	RIN	Lab	Lab Sample Number	Analyte	Result	Units
LC1	Metal	MET-A-013	04D0329	GEL	1200556581	ARSENIC	106.4	%REC
LC1	Metal	MET-A-013	04D0324	GEL	1200563384	MANGANESE	106.4	%REC
LC1	Metal	MET-A-013	04D0329	GEL	1200556581	TIN	106.4	%REC
LC1	Metal	MET-A-013	04D0391	GEL	1200575668	ALUMINUM	106.5	%REC
LC1	Metal	MET-A-013	04D0324	GEL	1200563384	ARSENIC	106.8	%REC
LC1	Metal	MET-A-013	04D0391	GEL	1200575668	BERYLLIUM	107	%REC
LC1	Metal	MET-A-013	04D0468	STLDEN	D4C310000-625C	URANIUM, TOTAL	107	%REC
LC1	Metal	MET-A-013	04D0468	STLDEN	D4C310000-625C	STRONTIUM	107	%REC
LC1	Metal	MET-A-013	04D0468	STLDEN	D4C310000-625C	MANGANESE	107	%REC
LC1	Metal	MET-A-013	04D0468	STLDEN	D4C310000-625C	ARSENIC	107	%REC
LC1	Metal	MET-A-013	04D0324	GEL	1200563384	BERYLLIUM	107	%REC
LC1	Metal	MET-A-013	04D0468	STLDEN	D4C310000-625C	CHROMIUM	107	%REC
LC1	Metal	MET-A-013	04D0391	GEL	1200575668	COBALT	107	%REC
LC1	Metal	MET-A-013	04D0329	GEL	1200556581	ALUMINUM	107	%REC
LC1	Metal	MET-A-013	04D0468	STLDEN	D4C310000-625C	SILVER	107	%REC
LC1	Metal	MET-A-013	04D0329	GEL	1200556581	BERYLLIUM	107.2	%REC
LC1	Metal	MET-A-013	04D0329	GEL	1200556581	COBALT	107.2	%REC
LC1	Metal	MET-A-013	04D0391	GEL	1200575668	MANGANESE	107.2	%REC
LC1	Metal	MET-A-013	04D0468	STLDEN	D4C310000-625C	BARIUM	108	%REC
LC1	Metal	MET-A-013	04D0324	GEL	1200554254	MERCURY	108	%REC
LC1	Metal	MET-A-013	04D0329	GEL	1200556581	ANTIMONY	108.2	%REC
LC1	Metal	MET-A-013	04D0329	GEL	1200556581	LEAD	108.4	%REC
LC1	Metal	MET-A-013	04D0329	GEL	1200556581	CALCIUM	108.5	%REC
LC1	Metal	MET-A-013	04D0329	GEL	1200556581	MOLYBDENUM	108.6	%REC
LC1	Metal	MET-A-013	04D0391	GEL	1200575668	LITHIUM	109	%REC
LC1	Metal	MET-A-013	04D0329	GEL	1200556581	CHROMIUM	109	%REC
LC1	Metal	MET-A-013	04D0391	GEL	1200575668	NICKEL	109.2	%REC
LC1	Metal	MET-A-013	04D0329	GEL	1200556581	NICKEL	109.6	%REC
LC1	Metal	MET-A-013	04D0329	GEL	1200556581	MANGANESE	109.8	%REC
LC1	Metal	MET-A-013	04D0391	GEL	1200575668	STRONTIUM	110.2	%REC
LC1	Metal	MET-A-013	04D0391	GEL	1200575668	SILVER	110.4	%REC
LC1	Metal	MET-A-013	04D0324	GEL	1200563384	COPPER	110.6	%REC

Result Type	Group	LIC	RIN	Lab	Lab Sample Number	Analyte	Result	Units
LC1	Metal	MET-A-013	04D0329	GEL	1200556581	COPPER	111	%REC
LC1	Metal	MET-A-013	04D0468	STLDEN	D4C310000-625C	SELENIUM	111	%REC
LC1	Metal	MET-A-013	04D0391	GEL	1200575668	IRON	112	%REC
LC1	Metal	MET-A-013	04D0460	STLDEN	D4C190000-468C	SELENIUM	112	%REC
LC1	Metal	MET-A-013	04D0324	GEL	1200555498	SILVER	112.6	%REC
LC1	Metal	MET-A-013	04D0324	GEL	1200563384	CALCIUM	113	%REC
LC1	Metal	MET-A-013	04D0329	GEL	1200556581	STRONTIUM	113	%REC
LC1	Metal	MET-A-013	04D0391	GEL	1200575668	COPPER	114	%REC
LC1	Metal	MET-A-013	04D0324	GEL	1200563384	ALUMINUM	114	%REC
LC1	Metal	MET-A-013	04D0329	GEL	1200556581	SILVER	116.2	%REC
LC1	Metal	MET-A-013	04D0329	GEL	1200556581	URANIUM, TOTAL	116.8	%REC
LC1	Metal	MET-A-013	04D0329	GEL	1200556581	IRON	117	%REC
LC1	Metal	MET-A-013	04D0324	GEL	1200563384	POTASSIUM	117.5	%REC
LC1	VOC	VOA-A-007	04D0466	STLDEN	D4D030000-093C	1,1-DICHLOROETHENE	69	%REC
LC1	VOC	VOA-A-007	04D0429	STLDEN	D4C120000-553C	1,1-DICHLOROETHENE	73	%REC
LC1	VOC	VOA-A-007	04D0383	STLDEN	D4B170000-604C	1,1-DICHLOROETHENE	76	%REC
LC2	VOC	VOA-A-007	04D0429	STLDEN	D4C120000-553L	1,1-DICHLOROETHENE	77	%REC
LC1	VOC	VOA-A-007	04D0372	STLDEN	D4B110000-465C	1,1-DICHLOROETHENE	80	%REC
LC2	VOC	VOA-A-007	04D0372	STLDEN	D4B110000-465L	1,1-DICHLOROETHENE	81	%REC
LC1	VOC	VOA-A-007	04D0429	STLDEN	D4C120000-553C	BENZENE	89	%REC
LC3	VOC	VOA-A-007	04D0466	STLDEN	D4D050000-650L	TOLUENE	90	%REC
LC1	VOC	VOA-A-007	04D0384	STLDEN	D4B100000-330C	TOLUENE	90	%REC
LC2	VOC	VOA-A-007	04D0466	STLDEN	D4D050000-650C	TOLUENE	90	%REC
LC2	VOC	VOA-A-007	04D0329	EMXT	VO03A33C	TRICHLOROETHENE	91	%REC
LC1	VOC	VOA-A-007	04D0329	EMXT	VO03A33L	TRICHLOROETHENE	92	%REC
LC2	VOC	VOA-A-007	04D0329	EMXT	VO03A33C	BENZENE	94	%REC
LC2	VOC	VOA-A-007	04D0329	EMXT	VO03A33C	1,1-DICHLOROETHENE	94	%REC
LC1	VOC	VOA-A-007	04D0466	STLDEN	D4D030000-093C	TOLUENE	94	%REC
LC1	VOC	VOA-A-007	04D0384	STLDEN	D4B100000-330C	1,1-DICHLOROETHENE	95	%REC
LC1	VOC	VOA-A-007	04D0372	STLDEN	D4B110000-465C	TRICHLOROETHENE	95	%REC
LC1	VOC	VOA-A-007	04D0429	STLDEN	D4C120000-553C	TRICHLOROETHENE	95	%REC
LC3	VOC	VOA-A-007	04D0466	STLDEN	D4D050000-650L	CHLOROBENZENE	95	%REC

Result Type	Group	LIC	RIN	Lab	Lab Sample Number	Analyte	Result	Units
LC2	VOC	VOA-A-007	04D0466	STLDEN	D4D050000-650C	CHLOROBENZENE	95	%REC
LC1	VOC	VOA-A-007	04D0329	GEL	1200558884	1,1-DICHLOROETHENE	96	%REC
LC1	VOC	VOA-A-007	04D0329	EMXT	VO03A33L	BENZENE	96	%REC
LC2	VOC	VOA-A-007	04D0429	STLDEN	D4C120000-553L	BENZENE	96	%REC
LC1	VOC	VOA-A-007	04D0372	STLDEN	D4B110000-465C	CHLOROBENZENE	97	%REC
LC1	VOC	VOA-A-007	04D0383	STLDEN	D4B170000-604C	TOLUENE	97	%REC
LC1	VOC	VOA-A-007	04D0324	GEL	1200555224	1,1-DICHLOROETHENE	98	%REC
LC1	VOC	VOA-A-007	04D0329	EMXT	VO03A33L	TOLUENE	98	%REC
LC3	VOC	VOA-A-007	04D0466	STLDEN	D4D050000-650L	BENZENE	98	%REC
LC1	VOC	VOA-A-007	04D0384	STLDEN	D4B100000-330C	CHLOROBENZENE	98	%REC
LC1	VOC	VOA-A-007	04D0329	EMXT	VO03A33L	CHLOROBENZENE	98	%REC
LC2	VOC	VOA-A-007	04D0466	STLDEN	D4D050000-650C	BENZENE	99	%REC
LC2	VOC	VOA-A-007	04D0329	EMXT	VO03A33C	TOLUENE	99	%REC
LC2	VOC	VOA-A-007	04D0329	EMXT	VO03A33C	CHLOROBENZENE	99	%REC
LC2	VOC	VOA-A-007	04D0372	STLDEN	D4B110000-465L	TRICHLOROETHENE	99	%REC
LC2	VOC	VOA-A-007	04D0429	STLDEN	D4C120000-553L	TRICHLOROETHENE	99	%REC
LC1	VOC	VOA-A-007	04D0466	STLDEN	D4D030000-093C	CHLOROBENZENE	100	%REC
LC1	VOC	VOA-A-007	04D0487	STLDEN	D4D090000-590C	TOLUENE	100	%REC
LC1	VOC	VOA-A-007	04D0487	STLDEN	D4D090000-590C	CHLOROBENZENE	100	%REC
LC1	VOC	VOA-A-007	04D0384	STLDEN	D4B100000-330C	BENZENE	100	%REC
LC2	VOC	VOA-A-007	04D0372	STLDEN	D4B110000-465L	CHLOROBENZENE	100	%REC
LC1	VOC	VOA-A-007	04D0383	STLDEN	D4B170000-604C	BENZENE	100	%REC
LC1	VOC	VOA-A-007	04D0466	STLDEN	D4D030000-093C	BENZENE	100	%REC
LC1	VOC	VOA-A-007	04D0487	STLDEN	D4D090000-590C	BENZENE	101	%REC
LC1	VOC	VOA-A-007	04D0384	STLDEN	D4B100000-330C	TRICHLOROETHENE	101	%REC
LC1	VOC	VOA-A-007	04D0372	STLDEN	D4B110000-465C	TOLUENE	101	%REC
LC1	VOC	VOA-A-007	04D0324	GEL	1200555224	BENZENE	102	%REC
LC1	VOC	VOA-A-007	04D0487	STLDEN	D4D090000-590C	TRICHLOROETHENE	103	%REC
LC2	VOC	VOA-A-007	04D0487	STLDEN	D4D090000-590L	BENZENE	104	%REC
LC2	VOC	VOA-A-007	04D0487	STLDEN	D4D090000-590L	1,1-DICHLOROETHENE	104	%REC
LC2	VOC	VOA-A-007	04D0372	STLDEN	D4B110000-465L	TOLUENE	104	%REC
LC1	VOC	VOA-A-007	04D0383	STLDEN	D4B170000-604C	CHLOROBENZENE	104	%REC

Result Type	Group	LIC	RIN	Lab	Lab Sample Number	Analyte	Result	Units
LC1	VOC	VOA-A-007	04D0329	GEL	1200558884	BENZENE	104	%REC
LC2	VOC	VOA-A-007	04D0487	STLDEN	D4D090000-590L	TRICHLOROETHENE	104	%REC
LC1	VOC	VOA-A-007	04D0329	GEL	1200558884	CHLOROBENZENE	105	%REC
LC2	VOC	VOA-A-007	04D0466	STLDEN	D4D050000-650C	1,1-DICHLOROETHENE	105	%REC
LC3	VOC	VOA-A-007	04D0466	STLDEN	D4D050000-650L	1,1-DICHLOROETHENE	105	%REC
LC1	VOC	VOA-A-007	04D0429	STLDEN	D4C120000-553C	TOLUENE	105	%REC
LC1	VOC	VOA-A-007	04D0329	GEL	1200558884	TRICHLOROETHENE	106	%REC
LC1	VOC	VOA-A-007	04D0329	EMXT	VO03A33L	1,1-DICHLOROETHENE	106	%REC
LC2	VOC	VOA-A-007	04D0429	STLDEN	D4C120000-553L	TOLUENE	106	%REC
LC2	VOC	VOA-A-007	04D0487	STLDEN	D4D090000-590L	CHLOROBENZENE	106	%REC
LC2	VOC	VOA-A-007	04D0487	STLDEN	D4D090000-590L	TOLUENE	106	%REC
LC1	VOC	VOA-A-007	04D0372	STLDEN	D4B110000-465C	BENZENE	107	%REC
LC1	VOC	VOA-A-007	04D0324	GEL	1200555224	TOLUENE	108	%REC
LC1	VOC	VOA-A-007	04D0487	STLDEN	D4D090000-590C	1,1-DICHLOROETHENE	108	%REC
LC1	VOC	VOA-A-007	04D0329	GEL	1200558884	TOLUENE	108	%REC
LC1	VOC	VOA-A-007	04D0429	STLDEN	D4C120000-553C	CHLOROBENZENE	108	%REC
LC1	VOC	VOA-A-007	04D0324	GEL	1200555224	CHLOROBENZENE	108	%REC
LC1	VOC	VOA-A-007	04D0324	GEL	1200555224	TRICHLOROETHENE	109	%REC
LC2	VOC	VOA-A-007	04D0372	STLDEN	D4B110000-465L	BENZENE	109	%REC
LC1	VOC	VOA-A-007	04D0466	STLDEN	D4D030000-093C	TRICHLOROETHENE	110	%REC
LC1	VOC	VOA-A-007	04D0383	STLDEN	D4B170000-604C	TRICHLOROETHENE	110	%REC
LC2	VOC	VOA-A-007	04D0429	STLDEN	D4C120000-553L	CHLOROBENZENE	115	%REC
LC1	WQP	WCH-A-018	04D0324	GEL	1200554369	FLUORIDE	97	%REC
LC1	WQP	WCH-A-018	04D0329	GEL	1200557221	FLUORIDE	105	%REC
LC1	WQP	WCH-A-022	04D0329	GEL	1200562439	NITRATE/NITRITE	109	%REC
LC1	WQP	WCH-A-022	04D0324	GEL	1200562439	NITRATE/NITRITE	109	%REC
LC1	WQP	WCH-A-036	04D0324	GEL	1200554369	SULFATE	94	%REC
LC1	WQP	WCH-A-036	04D0329	GEL	1200557221	SULFATE	97	%REC

Table 5-9. Data Rejected During Verification or Validation.

Location	Sample Date	Sample Number	Analyte	QC Code	Result Type	Result	Error	Units	Result Qualifier	Validation	Validation Reason	Detect Limit	Dilution	Filtered	Well Class	Tier II
No sample data were rejected during verification or validation																

Table 5-10. Equipment Rinsate Results.

QC Code	Location	Sample Date	Analyte	Result Type	Result	Result Qualifier	Error	Units	Validation	Detection Limit	Result/ DetLim	Dilution	Filtered	Tier II	Result/ Tier II	Well Class	Sample Number	RIN
RNS	70193	01/13/04	COPPER	TR1	5.94			UG/L	J1			1	YES	1300	0.00	R	GW11261ST	04D0329
RNS	70193	01/13/04	URANIUM-233,-234	TR1	1		.661	PCI/L	V				YES	1.06	0.94	R	GW11261ST	04D0329
RNS	70193	01/13/04	COBALT	TR1	0.204	B		UG/L	V1			1	YES	2190	0.00	R	GW11261ST	04D0329
RNS	70193	01/13/04	LEAD	TR1	1.71	B		UG/L	J1			1	YES	15	0.11	R	GW11261ST	04D0329
RNS	70193	01/13/04	LITHIUM	TR1	0.219	B		UG/L	V1			1	YES	730	0.00	R	GW11261ST	04D0329
RNS	70193	01/13/04	MAGNESIUM	TR1	4.73	B		UG/L	V1			1	YES			R	GW11261ST	04D0329
RNS	70193	01/13/04	POTASSIUM	TR1	58.3	B		UG/L	V1			1	YES			R	GW11261ST	04D0329
RNS	70193	01/13/04	SODIUM	TR1	411	B		UG/L	V1			1	YES			R	GW11261ST	04D0329
RNS	70193	01/13/04	ACETONE	TR1	2.6	J		UG/L	V1			1	NO	3650	0.00	R	GW11261ST	04D0329
RNS	70193	01/13/04	URANIUM-235	TR1	0.293	J	.334	PCI/L	V				YES	1.01	0.29	R	GW11261ST	04D0329

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Table 5-11. Comparison of Required versus Collected Groundwater Samples.

Sample Types	Required Number of Visits	Actual Number of Visits*	Deviation	Success Ratio % Samples Collected or Wells Visited	Discrepancy Justification
Groundwater Wells (Visits)	29	29	0	100.0	
Volatile Organic Compounds	19	16	3	84.2	Dry or Insw
Dissolved Gasses (Methane/Ethane/Ethene)					
Metals	14	10	4	71.4	Dry or Insw
PCBs					
Radionuclides					
Pu/Am					
U-isotope	14	8	6	57.1	Dry or Insw
Cesium-137					
Strontium-89/90					
Water Quality Parameters					
Alkalinity					
Chloride					
Cyanide					
Fluoride	8	5	3	62.5	Dry or Insw
Nitrate or Nitrite (sole)					
Nitrate/Nitrite	11	7	4	63.6	Dry or Insw
Dissolved Silica					
Orthophosphate					
Sulfate	8	5	3	62.5	Dry or Insw
Sulfide as H ₂ S					
Total Dissolved Solids					
Total Organic Carbon					
Petroleum Hydrocarbons, T. Rec.	11	11	0	100.0	
Totals	85	62	23	72.9	Dry or Insw

Table Notes:

*Includes monthly, duplicate and rinsate samples.

Dry = Well did not recharge after purging. No samples collected.

Insw = Insufficient water to complete sample suite.

Table 5-12. Summary of Validation and Verification Data Completeness.

Chemical Group	Analytical Method	Total Number of Data Values	Number of Unvalidated Data Values	Number Rejected	Net Usable Data Values	Completeness	Goal Met
Metal	EPA 600	420	28	0	392	93.33	Yes
Radionuclide	ALPHA SPEC	39	3	0	36	92.31	Yes
VOC	SW-846 8260 LOW LEVEL	768	0	0	768	100	Yes
WQP	IONS	9	0	0	9	100	Yes
WQP	IONS	12	0	0	12	100	Yes
WQP	IONS	9	0	0	9	100	Yes
Totals		1257	31	0	1226	97.53	Yes

Table 5-13. Summary of Field Quality Control Samples & Data Records.

Analyte Group	Analytical Method	Line Item Code	Number of Wells Sampled for REALs	Number of Wells Sampled for DUPs	Number of Wells Sampled for RNSs	Ratio REALs/ DUPs (Goal <20)	Ratio REALs/ RNSs (Goal <20)	Number REAL Records	Number DUP Records	Number RNS Records	Total Records
Metal	EPA 600	MET-A-013	8	1	1	8	8	364	28	28	420
Radionuclide	ALPHA SPEC	ASP-A-024	7	1	1	7	7	33	3	3	39
VOC	SW-846 8260 LOW LEVEL	VOA-A-007	7	1	1	7	7	640	64	64	768
WQP	IONS	WCH-A-018	4	1	1	4	4	7	1	1	9
WQP	IONS	WCH-A-022	7	1	1	7	7	10	1	1	12
WQP	IONS	WCH-A-036	4	1	1	4	4	7	1	1	9
Totals			37	6	6	6.17	6.17	1061	98	98	1257
Percentages						16.22	16.22		9.24	9.24	

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6 REFERENCES

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APPENDIX A
FIRST QUARTER 2004
GROUNDWATER ANALYTICAL DATA

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Location	Sample Date	Sample Number	Analyte	QC Code	Result Type	Result	Error 2 Sigma	Units	Result Qualifier	Validation	Detection Limit	Dilution	Filtered	Well Class	Tier/ (ug/L or pCi/L)
01697	03/16/04	GW11278ST	ALUMINUM	REAL	TR1	160		UG/L		V1		1	YES	PD	36500
01697	03/16/04	GW11278ST	ANTIMONY	REAL	TR1	2.6		UG/L	U	V1		1	YES	PD	10
01697	03/16/04	GW11278ST	ARSENIC	REAL	TR1	2.1		UG/L	U	V1		1	YES	PD	50
01697	03/16/04	GW11278ST	BARIUM	REAL	TR1	87		UG/L	B	V1		1	YES	PD	2000
01697	03/16/04	GW11278ST	BERYLLIUM	REAL	TR1	0.32		UG/L	U	V1		1	YES	PD	5
01697	03/16/04	GW11278ST	CADMIUM	REAL	TR1	0.2		UG/L	U	V1		1	YES	PD	5
01697	03/16/04	GW11278ST	CALCIUM	REAL	TR1	27000		UG/L		V1		1	YES	PD	
01697	03/16/04	GW11278ST	CHROMIUM	REAL	TR1	0.9		UG/L	U	V1		1	YES	PD	100
01697	03/16/04	GW11278ST	COBALT	REAL	TR1	4.8		UG/L	B	V1		1	YES	PD	2190
01697	03/16/04	GW11278ST	COPPER	REAL	TR1	1.5		UG/L	U	V1		1	YES	PD	1300
01697	03/16/04	GW11278ST	IRON	REAL	TR1	130		UG/L		V1		1	YES	PD	
01697	03/16/04	GW11278ST	LEAD	REAL	TR1	1		UG/L	U	J1		1	YES	PD	15
01697	03/16/04	GW11278ST	LITHIUM	REAL	TR1	12		UG/L	B	V1		1	YES	PD	730
01697	03/16/04	GW11278ST	MAGNESIUM	REAL	TR1	5600		UG/L		V1		1	YES	PD	
01697	03/16/04	GW11278ST	MANGANESE	REAL	TR1	7.6		UG/L	B	J1		1	YES	PD	1720
01697	03/16/04	GW11278ST	MERCURY	REAL	TR1	0.023		UG/L	U	J1		1	YES	PD	2
01697	03/16/04	GW11278ST	MOLYBDENUM	REAL	TR1	0.9		UG/L	U	V1		1	YES	PD	183
01697	03/16/04	GW11278ST	NICKEL	REAL	TR1	4.8		UG/L	U	V1		1	YES	PD	140
01697	03/16/04	GW11278ST	POTASSIUM	REAL	TR1	630		UG/L	U	V1		1	YES	PD	
01697	03/16/04	GW11278ST	SELENIUM	REAL	TR1	2.3		UG/L	U	J1		1	YES	PD	50
01697	03/16/04	GW11278ST	SILVER	REAL	TR1	0.26		UG/L	U	J1		1	YES	PD	183
01697	03/16/04	GW11278ST	SODIUM	REAL	TR1	13000		UG/L		V1		1	YES	PD	
01697	03/16/04	GW11278ST	STRONTIUM	REAL	TR1	160		UG/L	B	V1		1	YES	PD	21900
01697	03/16/04	GW11278ST	THALLIUM	REAL	TR1	2.3		UG/L	U	J1		1	YES	PD	12
01697	03/16/04	GW11278ST	TIN	REAL	TR1	2.2		UG/L	U	V1		1	YES	PD	21900
01697	03/16/04	GW11278ST	URANIUM, TOTAL	REAL	TR1	39		UG/L	U	V1		1	YES	PD	
01697	03/16/04	GW11278ST	VANADIUM	REAL	TR1	1.8		UG/L	U	V1		1	YES	PD	256
01697	03/16/04	GW11278ST	ZINC	REAL	TR1	4.9		UG/L	B	V1		1	YES	PD	11000
0487	01/13/04	GW11253ST	1,1,1,2-TETRACHLOROETHANE	REAL	DL1	5		UG/L	U	1		5	NO	PD	
0487	01/13/04	GW11253ST	1,1,1,2-TETRACHLOROETHANE	REAL	TR1	1		UG/L	U	V1		1	NO	PD	
0487	01/13/04	GW11253ST	1,1,1-TRICHLOROETHANE	REAL	TR1	0.52		UG/L	J	V1		1	NO	PD	200
0487	01/13/04	GW11253ST	1,1,1-TRICHLOROETHANE	REAL	DL1	5		UG/L	U	1		5	NO	PD	200
0487	01/13/04	GW11253ST	1,1,2,2-TETRACHLOROETHANE	REAL	DL1	5		UG/L	U	1		5	NO	PD	1
0487	01/13/04	GW11253ST	1,1,2,2-TETRACHLOROETHANE	REAL	TR1	1		UG/L	U	V1		1	NO	PD	1
0487	01/13/04	GW11253ST	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	REAL	DL1	25		UG/L	U	1		5	NO	PD	
0487	01/13/04	GW11253ST	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	REAL	TR1	5		UG/L	U	V1		1	NO	PD	
0487	01/13/04	GW11253ST	1,1,2-TRICHLOROETHANE	REAL	TR1	1		UG/L	U	V1		1	NO	PD	5
0487	01/13/04	GW11253ST	1,1,2-TRICHLOROETHANE	REAL	DL1	5		UG/L	U	1		5	NO	PD	5
0487	01/13/04	GW11253ST	1,1-DICHLOROETHANE	REAL	DL1	5		UG/L	U	1		5	NO	PD	3650
0487	01/13/04	GW11253ST	1,1-DICHLOROETHANE	REAL	TR1	1		UG/L	U	V1		1	NO	PD	3650
0487	01/13/04	GW11253ST	1,1-DICHLOROETHENE	REAL	DL1	5		UG/L	U	1		5	NO	PD	7
0487	01/13/04	GW11253ST	1,1-DICHLOROETHENE	REAL	TR1	1		UG/L		V1		1	NO	PD	7
0487	01/13/04	GW11253ST	1,1-DICHLOROPROPENE	REAL	DL1	5		UG/L	U	1		5	NO	PD	
0487	01/13/04	GW11253ST	1,1-DICHLOROPROPENE	REAL	TR1	1		UG/L	U	V1		1	NO	PD	
0487	01/13/04	GW11253ST	1,2,3-TRICHLOROBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO	PD	
0487	01/13/04	GW11253ST	1,2,3-TRICHLOROBENZENE	REAL	DL1	5		UG/L	U	1		5	NO	PD	
0487	01/13/04	GW11253ST	1,2,3-TRICHLOROPROPANE	REAL	DL1	5		UG/L	U	1		5	NO	PD	
0487	01/13/04	GW11253ST	1,2,3-TRICHLOROPROPANE	REAL	TR1	1		UG/L	U	V1		1	NO	PD	
0487	01/13/04	GW11253ST	1,2,4-TRICHLOROBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO	PD	70
0487	01/13/04	GW11253ST	1,2,4-TRICHLOROBENZENE	REAL	DL1	5		UG/L	U	1		5	NO	PD	70
0487	01/13/04	GW11253ST	1,2-DIBROMOETHANE	REAL	DL1	5		UG/L	U	1		5	NO	PD	
0487	01/13/04	GW11253ST	1,2-DIBROMOETHANE	REAL	TR1	1		UG/L	U	V1		1	NO	PD	
0487	01/13/04	GW11253ST	1,2-DICHLOROBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO	PD	600
0487	01/13/04	GW11253ST	1,2-DICHLOROBENZENE	REAL	DL1	5		UG/L	U	1		5	NO	PD	600
0487	01/13/04	GW11253ST	1,2-DICHLOROETHANE	REAL	TR1	1		UG/L	U	V1		1	NO	PD	5
0487	01/13/04	GW11253ST	1,2-DICHLOROETHANE	REAL	DL1	5		UG/L	U	1		5	NO	PD	5
0487	01/13/04	GW11253ST	1,2-DICHLOROPROPANE	REAL	DL1	5		UG/L	U	1		5	NO	PD	5
0487	01/13/04	GW11253ST	1,2-DICHLOROPROPANE	REAL	TR1	1		UG/L	U	V1		1	NO	PD	5
0487	01/13/04	GW11253ST	1,3-DICHLOROBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO	PD	600
0487	01/13/04	GW11253ST	1,3-DICHLOROBENZENE	REAL	DL1	5		UG/L	U	1		5	NO	PD	600
0487	01/13/04	GW11253ST	1,3-DICHLOROPROPANE	REAL	DL1	5		UG/L	U	1		5	NO	PD	
0487	01/13/04	GW11253ST	1,3-DICHLOROPROPANE	REAL	TR1	1		UG/L	U	V1		1	NO	PD	
0487	01/13/04	GW11253ST	1,4-DICHLOROBENZENE	REAL	DL1	5		UG/L	U	1		5	NO	PD	75

Location	Sample Date	Sample Number	Analyte	QC Code	Result Type	Result	Error 2 Sigma	Units	Result Qualifier	Validation	Detection Limit	Dilution	Filtered	Well Class	Tier1 (ug/L or pCi/L)
0487	01/13/04	GW11253ST	1,4-DICHLOROBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO	PD	75
0487	01/13/04	GW11253ST	2,2-DICHLOROPROPANE	REAL	TR1	1		UG/L	U	V1		1	NO	PD	
0487	01/13/04	GW11253ST	2,2-DICHLOROPROPANE	REAL	DL1	5		UG/L	U	1		5	NO	PD	
0487	01/13/04	GW11253ST	2-BUTANONE	REAL	TR1	10		UG/L	U	V1		1	NO	PD	21900
0487	01/13/04	GW11253ST	2-BUTANONE	REAL	DL1	50		UG/L	U	1		5	NO	PD	21900
0487	01/13/04	GW11253ST	2-CHLOROTOLUENE	REAL	TR1	1		UG/L	U	V1		1	NO	PD	
0487	01/13/04	GW11253ST	2-CHLOROTOLUENE	REAL	DL1	5		UG/L	U	1		5	NO	PD	
0487	01/13/04	GW11253ST	2-HEXANONE	REAL	DL1	50		UG/L	U	1		5	NO	PD	
0487	01/13/04	GW11253ST	2-HEXANONE	REAL	TR1	10		UG/L	U	V1		1	NO	PD	
0487	01/13/04	GW11253ST	4-ISOPROPYLTOLUENE	REAL	DL1	5		UG/L	U	1		5	NO	PD	
0487	01/13/04	GW11253ST	4-ISOPROPYLTOLUENE	REAL	TR1	1		UG/L	U	V1		1	NO	PD	
0487	01/13/04	GW11253ST	4-METHYL-2-PENTANONE	REAL	TR1	10		UG/L	U	V1		1	NO	PD	2920
0487	01/13/04	GW11253ST	4-METHYL-2-PENTANONE	REAL	DL1	50		UG/L	U	1		5	NO	PD	2920
0487	01/13/04	GW11253ST	ACETONE	REAL	TR1	10		UG/L	U	V1		1	NO	PD	3650
0487	01/13/04	GW11253ST	ACETONE	REAL	DL1	50		UG/L	U	1		5	NO	PD	3650
0487	01/13/04	GW11253ST	BENZENE	REAL	DL1	5		UG/L	U	1		5	NO	PD	5
0487	01/13/04	GW11253ST	BENZENE	REAL	TR1	1		UG/L	U	V1		1	NO	PD	5
0487	01/13/04	GW11253ST	BENZENE, 1,2,4-TRIMETHYL	REAL	TR1	1		UG/L	U	V1		1	NO	PD	
0487	01/13/04	GW11253ST	BENZENE, 1,2,4-TRIMETHYL	REAL	DL1	5		UG/L	U	1		5	NO	PD	
0487	01/13/04	GW11253ST	BENZENE, 1,3,5-TRIMETHYL	REAL	TR1	1		UG/L	U	V1		1	NO	PD	
0487	01/13/04	GW11253ST	BENZENE, 1,3,5-TRIMETHYL	REAL	DL1	5		UG/L	U	1		5	NO	PD	
0487	01/13/04	GW11253ST	BROMOBENZENE	REAL	DL1	5		UG/L	U	1		5	NO	PD	
0487	01/13/04	GW11253ST	BROMOBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO	PD	
0487	01/13/04	GW11253ST	BROMOCHLOROMETHANE	REAL	DL1	5		UG/L	U	1		5	NO	PD	
0487	01/13/04	GW11253ST	BROMOCHLOROMETHANE	REAL	TR1	1		UG/L	U	V1		1	NO	PD	
0487	01/13/04	GW11253ST	BROMODICHLOROMETHANE	REAL	TR1	1		UG/L	U	V1		1	NO	PD	100
0487	01/13/04	GW11253ST	BROMODICHLOROMETHANE	REAL	DL1	5		UG/L	U	1		5	NO	PD	100
0487	01/13/04	GW11253ST	BROMOFORM	REAL	DL1	5		UG/L	U	1		5	NO	PD	100
0487	01/13/04	GW11253ST	BROMOFORM	REAL	TR1	1		UG/L	U	UJ1		1	NO	PD	100
0487	01/13/04	GW11253ST	BROMOMETHANE	REAL	TR1	1		UG/L	U	V1		1	NO	PD	51.1
0487	01/13/04	GW11253ST	BROMOMETHANE	REAL	DL1	5		UG/L	U	1		5	NO	PD	51.1
0487	01/13/04	GW11253ST	CARBON DISULFIDE	REAL	DL1	25		UG/L	U	1		5	NO	PD	3650
0487	01/13/04	GW11253ST	CARBON DISULFIDE	REAL	TR1	5		UG/L	U	V1		1	NO	PD	3650
0487	01/13/04	GW11253ST	CARBON TETRACHLORIDE	REAL	TR1	14.4		UG/L		V1		1	NO	PD	5
0487	01/13/04	GW11253ST	CARBON TETRACHLORIDE	REAL	DL1	12		UG/L	D	1		5	NO	PD	5
0487	01/13/04	GW11253ST	CHLOROBENZENE	REAL	DL1	5		UG/L	U	1		5	NO	PD	100
0487	01/13/04	GW11253ST	CHLOROBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO	PD	100
0487	01/13/04	GW11253ST	CHLOROETHANE	REAL	DL1	5		UG/L	U	1		5	NO	PD	29.4
0487	01/13/04	GW11253ST	CHLOROETHANE	REAL	TR1	1		UG/L	U	V1		1	NO	PD	29.4
0487	01/13/04	GW11253ST	CHLOROFORM	REAL	DL1	4		UG/L	JD	1		5	NO	PD	100
0487	01/13/04	GW11253ST	CHLOROFORM	REAL	TR1	4.3		UG/L		V1		1	NO	PD	100
0487	01/13/04	GW11253ST	CHLOROMETHANE	REAL	TR1	1		UG/L	U	V1		1	NO	PD	6.55
0487	01/13/04	GW11253ST	CHLOROMETHANE	REAL	DL1	5		UG/L	U	1		5	NO	PD	6.55
0487	01/13/04	GW11253ST	cis-1,2-DICHLOROETHENE	REAL	DL1	5		UG/L	U	1		5	NO	PD	70
0487	01/13/04	GW11253ST	cis-1,2-DICHLOROETHENE	REAL	TR1	1		UG/L	U	V1		1	NO	PD	70
0487	01/13/04	GW11253ST	cis-1,3-DICHLOROPROPENE	REAL	TR1	1		UG/L	U	V1		1	NO	PD	1
0487	01/13/04	GW11253ST	cis-1,3-DICHLOROPROPENE	REAL	DL1	5		UG/L	U	1		5	NO	PD	1
0487	01/13/04	GW11253ST	DIBROMOCHLOROMETHANE	REAL	DL1	5		UG/L	U	1		5	NO	PD	1.01
0487	01/13/04	GW11253ST	DIBROMOCHLOROMETHANE	REAL	TR1	1		UG/L	U	V1		1	NO	PD	1.01
0487	01/13/04	GW11253ST	DIBROMOMETHANE	REAL	DL1	5		UG/L	U	1		5	NO	PD	
0487	01/13/04	GW11253ST	DIBROMOMETHANE	REAL	TR1	1		UG/L	U	V1		1	NO	PD	
0487	01/13/04	GW11253ST	DICHLORODIFLUOROMETHANE	REAL	DL1	5		UG/L	U	1		5	NO	PD	
0487	01/13/04	GW11253ST	DICHLORODIFLUOROMETHANE	REAL	TR1	1		UG/L	U	V1		1	NO	PD	
0487	01/13/04	GW11253ST	ETHYLBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO	PD	700
0487	01/13/04	GW11253ST	ETHYLBENZENE	REAL	DL1	5		UG/L	U	1		5	NO	PD	700
0487	01/13/04	GW11253ST	HEXACHLOROBUTADIENE	REAL	TR1	1		UG/L	U	V1		1	NO	PD	10
0487	01/13/04	GW11253ST	HEXACHLOROBUTADIENE	REAL	DL1	5		UG/L	U	1		5	NO	PD	10
0487	01/13/04	GW11253ST	ISOPROPYLBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO	PD	
0487	01/13/04	GW11253ST	ISOPROPYLBENZENE	REAL	DL1	5		UG/L	U	1		5	NO	PD	
0487	01/13/04	GW11253ST	METHYLENE CHLORIDE	REAL	TR1	1		UG/L	U	V1		1	NO	PD	5
0487	01/13/04	GW11253ST	METHYLENE CHLORIDE	REAL	DL1	5		UG/L	U	1		5	NO	PD	5
0487	01/13/04	GW11253ST	NAPHTHALENE	REAL	DL1	5		UG/L	U	1		5	NO	PD	1460
0487	01/13/04	GW11253ST	NAPHTHALENE	REAL	TR1	1		UG/L	U	V1		1	NO	PD	1460

Location	Sample Date	Sample Number	Analyte	QC Code	Result Type	Result	Error 2 Sigma	Units	Result Qualifier	Validation	Detection Limit	Dilution	Filtered	Well Class	Tier/ (ug/L or pCi/L)
0487	01/13/04	GW11253ST	n-BUTYLBENZENE	REAL	DL1	5		UG/L	U	1		5	NO	PD	
0487	01/13/04	GW11253ST	n-BUTYLBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO	PD	
0487	01/13/04	GW11253ST	n-PROPYLBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO	PD	
0487	01/13/04	GW11253ST	n-PROPYLBENZENE	REAL	DL1	5		UG/L	U	1		5	NO	PD	
0487	01/13/04	GW11253ST	p-CHLOROTOLUENE	REAL	DL1	5		UG/L	U	1		5	NO	PD	
0487	01/13/04	GW11253ST	p-CHLOROTOLUENE	REAL	TR1	1		UG/L	U	V1		1	NO	PD	
0487	01/13/04	GW11253ST	PROPANE, 1,2-DIBROMO-3-CHLORO-	REAL	DL1	5		UG/L	U	1		5	NO	PD	1
0487	01/13/04	GW11253ST	PROPANE, 1,2-DIBROMO-3-CHLORO-	REAL	TR1	1		UG/L	U	V1		1	NO	PD	1
0487	01/13/04	GW11253ST	sec-BUTYLBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO	PD	
0487	01/13/04	GW11253ST	sec-BUTYLBENZENE	REAL	DL1	5		UG/L	U	1		5	NO	PD	
0487	01/13/04	GW11253ST	STYRENE	REAL	TR1	1		UG/L	U	V1		1	NO	PD	100
0487	01/13/04	GW11253ST	STYRENE	REAL	DL1	5		UG/L	U	1		5	NO	PD	100
0487	01/13/04	GW11253ST	tert-BUTYLBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO	PD	
0487	01/13/04	GW11253ST	tert-BUTYLBENZENE	REAL	DL1	5		UG/L	U	1		5	NO	PD	
0487	01/13/04	GW11253ST	TETRACHLOROETHENE	REAL	DL1	5		UG/L	D	1		5	NO	PD	5
0487	01/13/04	GW11253ST	TETRACHLOROETHENE	REAL	TR1	5.3		UG/L		V1		1	NO	PD	5
0487	01/13/04	GW11253ST	TOLUENE	REAL	TR1	1		UG/L	U	V1		1	NO	PD	1000
0487	01/13/04	GW11253ST	TOLUENE	REAL	DL1	5		UG/L	U	1		5	NO	PD	1000
0487	01/13/04	GW11253ST	TOTAL XYLENES	REAL	DL1	15		UG/L	U	1		5	NO	PD	10000
0487	01/13/04	GW11253ST	TOTAL XYLENES	REAL	TR1	3		UG/L	U	V1		1	NO	PD	10000
0487	01/13/04	GW11253ST	trans-1,2-DICHLOROETHENE	REAL	DL1	5		UG/L	U	1		5	NO	PD	70
0487	01/13/04	GW11253ST	trans-1,2-DICHLOROETHENE	REAL	TR1	1		UG/L	U	V1		1	NO	PD	70
0487	01/13/04	GW11253ST	trans-1,3-DICHLOROPROPENE	REAL	DL1	5		UG/L	U	1		5	NO	PD	1
0487	01/13/04	GW11253ST	trans-1,3-DICHLOROPROPENE	REAL	TR1	1		UG/L	U	V1		1	NO	PD	1
0487	01/13/04	GW11253ST	TRICHLOROETHENE	REAL	TR1	181		UG/L	E	1		1	NO	PD	5
0487	01/13/04	GW11253ST	TRICHLOROETHENE	REAL	DL1	173		UG/L	D	V1		5	NO	PD	5
0487	01/13/04	GW11253ST	TRICHLOROFLUOROMETHANE	REAL	DL1	5		UG/L	U	1		5	NO	PD	
0487	01/13/04	GW11253ST	TRICHLOROFLUOROMETHANE	REAL	TR1	1		UG/L	U	V1		1	NO	PD	
0487	01/13/04	GW11253ST	VINYL CHLORIDE	REAL	DL1	5		UG/L	U	1		5	NO	PD	2
0487	01/13/04	GW11253ST	VINYL CHLORIDE	REAL	TR1	1		UG/L	U	V1		1	NO	PD	2
10394	03/18/04	GW11280ST	ALUMINUM	REAL	TR1	170		UG/L				1	YES	B	36500
10394	03/18/04	GW11280ST	ANTIMONY	REAL	TR1	2.6		UG/L	U			1	YES	B	10
10394	03/18/04	GW11280ST	ARSENIC	REAL	TR1	2.1		UG/L	U			1	YES	B	50
10394	03/18/04	GW11280ST	BARIUM	REAL	TR1	99		UG/L	B			1	YES	B	2000
10394	03/18/04	GW11280ST	BERYLLIUM	REAL	TR1	0.32		UG/L	U			1	YES	B	5
10394	03/18/04	GW11280ST	CADMIUM	REAL	TR1	0.24		UG/L	B			1	YES	B	5
10394	03/18/04	GW11280ST	CALCIUM	REAL	TR1	59000		UG/L				1	YES	B	
10394	03/18/04	GW11280ST	CHROMIUM	REAL	TR1	2.5		UG/L				1	YES	B	100
10394	03/18/04	GW11280ST	COBALT	REAL	TR1	3.2		UG/L	B			1	YES	B	2190
10394	03/18/04	GW11280ST	COPPER	REAL	TR1	5.4		UG/L				1	YES	B	1300
10394	03/18/04	GW11280ST	IRON	REAL	TR1	60		UG/L	B			1	YES	B	
10394	03/18/04	GW11280ST	LEAD	REAL	TR1	5.8		UG/L				1	YES	B	15
10394	03/18/04	GW11280ST	LITHIUM	REAL	TR1	11		UG/L	B			1	YES	B	730
10394	03/18/04	GW11280ST	MAGNESIUM	REAL	TR1	15000		UG/L				1	YES	B	
10394	03/18/04	GW11280ST	MANGANESE	REAL	TR1	9.2		UG/L	B			1	YES	B	1720
10394	03/18/04	GW11280ST	MERCURY	REAL	TR1	0.023		UG/L	U			1	YES	B	2
10394	03/18/04	GW11280ST	MOLYBDENUM	REAL	TR1	1.6		UG/L	B			1	YES	B	183
10394	03/18/04	GW11280ST	NICKEL	REAL	TR1	4.8		UG/L	U			1	YES	B	140
10394	03/18/04	GW11280ST	POTASSIUM	REAL	TR1	1800		UG/L	B			1	YES	B	
10394	03/18/04	GW11280ST	SELENIUM	REAL	TR1	5.1		UG/L				1	YES	B	50
10394	03/18/04	GW11280ST	SILVER	REAL	TR1	0.26		UG/L	U			1	YES	B	183
10394	03/18/04	GW11280ST	SODIUM	REAL	TR1	51000		UG/L				1	YES	B	
10394	03/18/04	GW11280ST	STRONTIUM	REAL	TR1	430		UG/L				1	YES	B	21900
10394	03/18/04	GW11280ST	THALLIUM	REAL	TR1	2.3		UG/L	U			1	YES	B	12
10394	03/18/04	GW11280ST	TIN	REAL	TR1	2.2		UG/L	U			1	YES	B	21900
10394	03/18/04	GW11280ST	URANIUM, TOTAL	REAL	TR1	39		UG/L	U			1	YES	B	
10394	03/18/04	GW11280ST	VANADIUM	REAL	TR1	1.8		UG/L	U			1	YES	B	256
10394	03/18/04	GW11280ST	ZINC	REAL	TR1	7.1		UG/L	B			1	YES	B	11000
1786	01/09/04	GW11250ST	ALUMINUM	REAL	TR1	191		UG/L		V1		5	NO	PE	36500
1786	02/12/04	GW11265ST	ALUMINUM	REAL	DL1	655		UG/L		1		1	NO	PE	36500
1786	02/12/04	GW11265ST	ALUMINUM	REAL	TR1	330		UG/L	*	J1		1	NO	PE	36500
1786	01/09/04	GW11250ST	ANTIMONY	REAL	TR1	0.284		UG/L	B	UJ1		1	NO	PE	10
1786	02/12/04	GW11265ST	ANTIMONY	REAL	LD1	0.225		UG/L	B	1		1	NO	PE	10

Location	Sample Date	Sample Number	Analyte	QC Code	Result Type	Result	Error 2 Sigma	Units	Result Qualifier	Validation	Detection Limit	Dilution	Filtered	Well Class	Tier1 (ug/L or pCi/L)
1786	02/12/04	GW11265ST	ANTIMONY	REAL	TR1	0.221		UG/L	B	UJ1		1	NO	PE	10
1786	01/09/04	GW11250ST	ARSENIC	REAL	TR1	6.83		UG/L		UJ1		1	NO	PE	50
1786	02/12/04	GW11265ST	ARSENIC	REAL	TR1	9.09		UG/L		V1		1	NO	PE	50
1786	02/12/04	GW11265ST	ARSENIC	REAL	LD1	10.7		UG/L		1		1	NO	PE	50
1786	01/09/04	GW11250ST	BARIUM	REAL	TR1	158		UG/L		V1		1	NO	PE	2000
1786	02/12/04	GW11265ST	BARIUM	REAL	TR1	151		UG/L		V1		1	NO	PE	2000
1786	02/12/04	GW11265ST	BARIUM	REAL	LD1	160		UG/L		1		1	NO	PE	2000
1786	01/09/04	GW11250ST	BERYLLIUM	REAL	TR1	0.067		UG/L	B	V1		1	NO	PE	5
1786	02/12/04	GW11265ST	BERYLLIUM	REAL	LD1	0.027		UG/L	U	1		1	NO	PE	5
1786	02/12/04	GW11265ST	BERYLLIUM	REAL	TR1	0.027		UG/L	U	V1		1	NO	PE	5
1786	01/09/04	GW11250ST	CADMIUM	REAL	TR1	0.016		UG/L	U	V1		1	NO	PE	5
1786	02/12/04	GW11265ST	CADMIUM	REAL	LD1	0.261		UG/L	B	1		1	NO	PE	5
1786	02/12/04	GW11265ST	CADMIUM	REAL	TR1	0.259		UG/L	B	V1		1	NO	PE	5
1786	01/09/04	GW11250ST	CALCIUM	REAL	TR1	501000		UG/L		V1		5	NO	PE	
1786	02/12/04	GW11265ST	CALCIUM	REAL	LD1	496000		UG/L		1		10	NO	PE	
1786	02/12/04	GW11265ST	CALCIUM	REAL	TR1	476000		UG/L		V1		10	NO	PE	
1786	01/09/04	GW11250ST	CHROMIUM	REAL	TR1	1.67		UG/L	B	UJ1		1	NO	PE	100
1786	02/12/04	GW11265ST	CHROMIUM	REAL	LD1	4.2		UG/L		1		1	NO	PE	100
1786	02/12/04	GW11265ST	CHROMIUM	REAL	TR1	2.34		UG/L		UJ1		1	NO	PE	100
1786	01/09/04	GW11250ST	COBALT	REAL	TR1	2.99		UG/L	B	V1		1	NO	PE	2190
1786	02/12/04	GW11265ST	COBALT	REAL	LD1	3.39		UG/L	B	1		1	NO	PE	2190
1786	02/12/04	GW11265ST	COBALT	REAL	TR1	3.18		UG/L	BE	J1		1	NO	PE	2190
1786	01/09/04	GW11250ST	COPPER	REAL	TR1	2.54		UG/L	B	V1		1	NO	PE	1300
1786	02/12/04	GW11265ST	COPPER	REAL	LD1	3.31		UG/L		1		1	NO	PE	1300
1786	02/12/04	GW11265ST	COPPER	REAL	TR1	2.99		UG/L	B	V1		1	NO	PE	1300
1786	01/09/04	GW11250ST	IRON	REAL	TR1	1660		UG/L		V1		1	NO	PE	
1786	02/12/04	GW11265ST	IRON	REAL	LD1	2290		UG/L		1		1	NO	PE	
1786	02/12/04	GW11265ST	IRON	REAL	TR1	1990		UG/L		V1		1	NO	PE	
1786	01/09/04	GW11250ST	LEAD	REAL	TR1	0.127		UG/L	B	V1		1	NO	PE	15
1786	02/12/04	GW11265ST	LEAD	REAL	TR1	0.395		UG/L	B	V1		1	NO	PE	15
1786	02/12/04	GW11265ST	LEAD	REAL	LD1	0.455		UG/L	B	1		1	NO	PE	15
1786	01/09/04	GW11250ST	LITHIUM	REAL	TR1	250		UG/L		V1		1	NO	PE	730
1786	02/12/04	GW11265ST	LITHIUM	REAL	TR1	252		UG/L		V1		1	NO	PE	730
1786	02/12/04	GW11265ST	LITHIUM	REAL	LD1	266		UG/L		1		1	NO	PE	730
1786	01/09/04	GW11250ST	MAGNESIUM	REAL	TR1	166000		UG/L	E	J1		5	NO	PE	
1786	02/12/04	GW11265ST	MAGNESIUM	REAL	TR1	145000		UG/L	E	J1		1	NO	PE	
1786	02/12/04	GW11265ST	MAGNESIUM	REAL	LD1	156000		UG/L		1		1	NO	PE	
1786	01/09/04	GW11250ST	MANGANESE	REAL	TR1	2.05		UG/L	B	V1		1	NO	PE	1720
1786	02/12/04	GW11265ST	MANGANESE	REAL	LD1	4.58		UG/L	B	1		1	NO	PE	1720
1786	02/12/04	GW11265ST	MANGANESE	REAL	TR1	3.99		UG/L	B	V1		1	NO	PE	1720
1786	01/09/04	GW11250ST	MERCURY	REAL	TR1	0.033		UG/L	U	J1		1	NO	PE	2
1786	02/12/04	GW11265ST	MERCURY	REAL	LD1	0.066		UG/L	U	1		1	NO	PE	2
1786	02/12/04	GW11265ST	MERCURY	REAL	TR1	0.066		UG/L	U	V1		1	NO	PE	2
1786	01/09/04	GW11250ST	MOLYBDENUM	REAL	TR1	0.962		UG/L	B	V1		1	NO	PE	183
1786	02/12/04	GW11265ST	MOLYBDENUM	REAL	TR1	0.943		UG/L	B	V1		1	NO	PE	183
1786	02/12/04	GW11265ST	MOLYBDENUM	REAL	LD1	1.09		UG/L	B	1		1	NO	PE	183
1786	01/09/04	GW11250ST	NICKEL	REAL	TR1	12.2		UG/L	B	V1		1	NO	PE	140
1786	02/12/04	GW11265ST	NICKEL	REAL	LD1	16.6		UG/L	B	1		1	NO	PE	140
1786	02/12/04	GW11265ST	NICKEL	REAL	TR1	14.9		UG/L	B	V1		1	NO	PE	140
1786	01/09/04	GW11250ST	NITRATE/NITRITE	REAL	TR2	504000		UG/L		V1	3000	300	NO	PE	10000
1786	01/09/04	GW11250ST	POTASSIUM	REAL	TR1	4690		UG/L	B	V1		5	NO	PE	
1786	02/12/04	GW11265ST	POTASSIUM	REAL	TR1	4010		UG/L	B	V1		1	NO	PE	
1786	02/12/04	GW11265ST	POTASSIUM	REAL	LD1	4460		UG/L	B	1		1	NO	PE	
1786	01/09/04	GW11250ST	SELENIUM	REAL	TR1	207		UG/L		V1		1	NO	PE	50
1786	02/12/04	GW11265ST	SELENIUM	REAL	LD1	201		UG/L		1		1	NO	PE	50
1786	02/12/04	GW11265ST	SELENIUM	REAL	TR1	190		UG/L		V1		1	NO	PE	50
1786	01/09/04	GW11250ST	SILVER	REAL	TR1	0.008		UG/L	U	V1		1	NO	PE	183
1786	02/12/04	GW11265ST	SILVER	REAL	LD1	0.011		UG/L	B	1		1	NO	PE	183
1786	02/12/04	GW11265ST	SILVER	REAL	TR1	0.015		UG/L	B	UJ1		1	NO	PE	183
1786	01/09/04	GW11250ST	SODIUM	REAL	TR1	358000		UG/L		V1		10	NO	PE	
1786	02/12/04	GW11265ST	SODIUM	REAL	LD1	337000		UG/L		1		10	NO	PE	
1786	02/12/04	GW11265ST	SODIUM	REAL	TR1	318000		UG/L		V1		10	NO	PE	
1786	01/09/04	GW11250ST	STRONTIUM	REAL	TR1	4650		UG/L		V1		1	NO	PE	21900

Location	Sample Date	Sample Number	Analyte	QC Code	Result Type	Result	Error 2 Sigma	Units	Result Qualifier	Validation	Detection Limit	Dilution	Filtered	Well Class	Tier1 (ug/L or pCi/L)
1786	02/12/04	GW11265ST	STRONTIUM	REAL	TR1	5880		UG/L	E	J1		1	NO	PE	21900
1786	02/12/04	GW11265ST	STRONTIUM	REAL	LD1	6240		UG/L		1		1	NO	PE	21900
1786	01/09/04	GW11250ST	THALLIUM	REAL	TR1	0.042		UG/L	B	UJ1		1	NO	PE	12
1786	02/12/04	GW11265ST	THALLIUM	REAL	LD1	0.095		UG/L	B	1		1	NO	PE	12
1786	02/12/04	GW11265ST	THALLIUM	REAL	TR1	0.337		UG/L	BE	J1		1	NO	PE	12
1786	01/09/04	GW11250ST	TIN	REAL	TR1	0.261		UG/L	B	UJ1		1	NO	PE	21900
1786	02/12/04	GW11265ST	TIN	REAL	LD1	0.455		UG/L	B	1		1	NO	PE	21900
1786	02/12/04	GW11265ST	TIN	REAL	TR1	0.099		UG/L	U	V1		1	NO	PE	21900
1786	01/09/04	GW11250ST	URANIUM, TOTAL	REAL	TR1	72.6		UG/L		V1		1	NO	PE	
1786	02/12/04	GW11265ST	URANIUM, TOTAL	REAL	TR1	71.7		UG/L		V1		1	NO	PE	
1786	02/12/04	GW11265ST	URANIUM, TOTAL	REAL	LD1	74.7		UG/L		1		1	NO	PE	
1786	01/09/04	GW11250ST	URANIUM-233, 234	REAL	TR1	36	5.72	PCI/L		V1			NO	PE	1.06
1786	01/09/04	GW11250ST	URANIUM-235	REAL	TR1	1.64	.662	PCI/L		V1			NO	PE	1.01
1786	01/09/04	GW11250ST	URANIUM-238	REAL	TR1	25.1	4.17	PCI/L		V1			NO	PE	0.768
1786	01/09/04	GW11250ST	VANADIUM	REAL	TR1	2.61		UG/L	U	V1		1	NO	PE	256
1786	02/12/04	GW11265ST	VANADIUM	REAL	LD1	2.61		UG/L	U	1		1	NO	PE	256
1786	02/12/04	GW11265ST	VANADIUM	REAL	TR1	2.61		UG/L	U	V1		1	NO	PE	256
1786	01/09/04	GW11250ST	ZINC	REAL	TR1	3.26		UG/L	B	UJ1		1	NO	PE	11000
1786	02/12/04	GW11265ST	ZINC	REAL	LD1	4.44		UG/L	B	1		1	NO	PE	11000
1786	02/12/04	GW11265ST	ZINC	REAL	TR1	4.42		UG/L	B	UJ1		1	NO	PE	11000
5887	01/09/04	GW11256ST	1,1,1,2-TETRACHLOROETHANE	REAL	TR1	1		UG/L	U	V1		1	NO	R	
5887	01/09/04	GW11256ST	1,1,1-TRICHLOROETHANE	REAL	TR1	1		UG/L	U	V1		1	NO	R	200
5887	01/09/04	GW11256ST	1,1,2,2-TETRACHLOROETHANE	REAL	TR1	1		UG/L	U	V1		1	NO	R	1
5887	01/09/04	GW11256ST	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	REAL	TR1	5		UG/L	U	V1		1	NO	R	
5887	01/09/04	GW11256ST	1,1,2-TRICHLOROETHANE	REAL	TR1	1		UG/L	U	V1		1	NO	R	5
5887	01/09/04	GW11256ST	1,1-DICHLOROETHANE	REAL	TR1	1		UG/L	U	V1		1	NO	R	3650
5887	01/09/04	GW11256ST	1,1-DICHLOROETHENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	7
5887	01/09/04	GW11256ST	1,1-DICHLOROPROPENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	
5887	01/09/04	GW11256ST	1,2,3-TRICHLOROBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	
5887	01/09/04	GW11256ST	1,2,3-TRICHLOROPROPANE	REAL	TR1	1		UG/L	U	V1		1	NO	R	
5887	01/09/04	GW11256ST	1,2,4-TRICHLOROBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	70
5887	01/09/04	GW11256ST	1,2-DIBROMOETHANE	REAL	TR1	1		UG/L	U	V1		1	NO	R	
5887	01/09/04	GW11256ST	1,2-DICHLOROBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	600
5887	01/09/04	GW11256ST	1,2-DICHLOROETHANE	REAL	TR1	1		UG/L	U	V1		1	NO	R	5
5887	01/09/04	GW11256ST	1,2-DICHLOROPROPANE	REAL	TR1	1		UG/L	U	V1		1	NO	R	5
5887	01/09/04	GW11256ST	1,3-DICHLOROBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	600
5887	01/09/04	GW11256ST	1,3-DICHLOROPROPANE	REAL	TR1	1		UG/L	U	V1		1	NO	R	
5887	01/09/04	GW11256ST	1,4-DICHLOROBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	75
5887	01/09/04	GW11256ST	2,2-DICHLOROPROPANE	REAL	TR1	1		UG/L	U	V1		1	NO	R	
5887	01/09/04	GW11256ST	2-BUTANONE	REAL	TR1	10		UG/L	U	V1		1	NO	R	21900
5887	01/09/04	GW11256ST	2-CHLOROTOLUENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	
5887	01/09/04	GW11256ST	2-HEXANONE	REAL	TR1	10		UG/L	U	V1		1	NO	R	
5887	01/09/04	GW11256ST	4-ISOPROPYLTOLUENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	
5887	01/09/04	GW11256ST	4-METHYL-2-PENTANONE	REAL	TR1	10		UG/L	U	V1		1	NO	R	2920
5887	01/09/04	GW11256ST	ACETONE	REAL	TR1	10		UG/L	U	V1		1	NO	R	3650
5887	01/09/04	GW11256ST	ALUMINUM	REAL	TR1	49.9		UG/L	B	V1		5	NO	R	36500
5887	01/09/04	GW11256ST	ALUMINUM	REAL	LD1	77.9		UG/L	B	1		5	NO	R	36500
5887	01/09/04	GW11256ST	ANTIMONY	REAL	TR1	0.346		UG/L	B	UJ1		1	NO	R	10
5887	01/09/04	GW11256ST	ARSENIC	REAL	LD1	2.13		UG/L	B	1		1	NO	R	50
5887	01/09/04	GW11256ST	ARSENIC	REAL	TR1	2.89		UG/L	B	UJ1		1	NO	R	50
5887	01/09/04	GW11256ST	BARIUM	REAL	TR1	66		UG/L	B	V1		1	NO	R	2000
5887	01/09/04	GW11256ST	BENZENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	5
5887	01/09/04	GW11256ST	BENZENE, 1,2,4-TRIMETHYL	REAL	TR1	1		UG/L	U	V1		1	NO	R	
5887	01/09/04	GW11256ST	BENZENE, 1,3,5-TRIMETHYL-	REAL	TR1	1		UG/L	U	V1		1	NO	R	
5887	01/09/04	GW11256ST	BERYLLIUM	REAL	TR1	0.027		UG/L	U	V1		1	NO	R	5
5887	01/09/04	GW11256ST	BERYLLIUM	REAL	LD1	0.028		UG/L	B	1		1	NO	R	5
5887	01/09/04	GW11256ST	BROMOBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	
5887	01/09/04	GW11256ST	BROMOCHLOROMETHANE	REAL	TR1	1		UG/L	U	V1		1	NO	R	
5887	01/09/04	GW11256ST	BROMODICHLOROMETHANE	REAL	TR1	1		UG/L	U	V1		1	NO	R	100
5887	01/09/04	GW11256ST	BROMOFORM	REAL	TR1	1		UG/L	U	V1		1	NO	R	100
5887	01/09/04	GW11256ST	BROMOMETHANE	REAL	TR1	1		UG/L	U	V1		1	NO	R	51.1
5887	01/09/04	GW11256ST	CADMIUM	REAL	TR1	0.055		UG/L	B	V1		1	NO	R	5
5887	01/09/04	GW11256ST	CALCIUM	REAL	TR1	22400		UG/L	B	V1		5	NO	R	

Location	Sample Date	Sample Number	Analyte	QC Code	Result Type	Result	Error 2 Sigma	Units	Result Qualifier	Validation	Detection Limit	Dilution	Filtered	Well Class	Tier1 (ug/L or pCi/L)
5887	01/09/04	GW11256ST	CALCIUM	REAL	LD1	23700		UG/L	B	1		5	NO	R	
5887	01/09/04	GW11256ST	CARBON DISULFIDE	REAL	TR1	5		UG/L	U	V1		1	NO	R	3650
5887	01/09/04	GW11256ST	CARBON TETRACHLORIDE	REAL	TR1	1		UG/L	U	V1		1	NO	R	5
5887	01/09/04	GW11256ST	CHLOROBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	100
5887	01/09/04	GW11256ST	CHLOROETHANE	REAL	TR1	1		UG/L	U	V1		1	NO	R	29.4
5887	01/09/04	GW11256ST	CHLOROFORM	REAL	TR1	1		UG/L	U	V1		1	NO	R	100
5887	01/09/04	GW11256ST	CHLOROMETHANE	REAL	TR1	1		UG/L	U	V1		1	NO	R	6.55
5887	01/09/04	GW11256ST	CHROMIUM	REAL	TR1	4.57		UG/L		V1		1	NO	R	100
5887	01/09/04	GW11256ST	CHROMIUM	REAL	LD1	5.14		UG/L		1		1	NO	R	100
5887	01/09/04	GW11256ST	cis-1,2-DICHLOROETHENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	70
5887	01/09/04	GW11256ST	cis-1,3-DICHLOROPROPENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	1
5887	01/09/04	GW11256ST	COBALT	REAL	TR1	0.169		UG/L	B	V1		1	NO	R	2190
5887	01/09/04	GW11256ST	COBALT	REAL	LD1	0.168		UG/L	B	1		1	NO	R	2190
5887	01/09/04	GW11256ST	COPPER	REAL	TR1	5.14		UG/L		V1		1	NO	R	1300
5887	01/09/04	GW11256ST	COPPER	REAL	LD1	5.15		UG/L		1		1	NO	R	1300
5887	01/09/04	GW11256ST	DIBROMOCHLOROMETHANE	REAL	TR1	1		UG/L	U	V1		1	NO	R	1.01
5887	01/09/04	GW11256ST	DIBROMOMETHANE	REAL	TR1	1		UG/L	U	V1		1	NO	R	
5887	01/09/04	GW11256ST	DICHLORODIFLUOROMETHANE	REAL	TR1	1		UG/L	U	UJ1		1	NO	R	
5887	01/09/04	GW11256ST	ETHYLBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	700
5887	01/09/04	GW11256ST	FLUORIDE	REAL	LD1	203		UG/L		1	55.3	1	NO	R	4000
5887	01/09/04	GW11256ST	FLUORIDE	REAL	TR1	206		UG/L	B	V1	55.3	1	NO	R	4000
5887	01/09/04	GW11256ST	HEXACHLOROBUTADIENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	10
5887	01/09/04	GW11256ST	IRON	REAL	TR1	127		UG/L		V1		1	NO	R	
5887	01/09/04	GW11256ST	IRON	REAL	LD1	125		UG/L		1		1	NO	R	
5887	01/09/04	GW11256ST	ISOPROPYLBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	
5887	01/09/04	GW11256ST	LEAD	REAL	TR1	0.169		UG/L	B	V1		1	NO	R	15
5887	01/09/04	GW11256ST	LITHIUM	REAL	TR1	4.15		UG/L	B	V1		1	NO	R	730
5887	01/09/04	GW11256ST	MAGNESIUM	REAL	TR1	4800		UG/L	BE	J1		5	NO	R	
5887	01/09/04	GW11256ST	MAGNESIUM	REAL	LD1	4530		UG/L	B	1		5	NO	R	
5887	01/09/04	GW11256ST	MANGANESE	REAL	LD1	2.78		UG/L	B	1		1	NO	R	1720
5887	01/09/04	GW11256ST	MANGANESE	REAL	TR1	2.75		UG/L	B	V1		1	NO	R	1720
5887	01/09/04	GW11256ST	MERCURY	REAL	TR1	0.033		UG/L	U	J1		1	NO	R	2
5887	01/09/04	GW11256ST	METHYLENE CHLORIDE	REAL	TR1	1		UG/L	U	V1		1	NO	R	5
5887	01/09/04	GW11256ST	MOLYBDENUM	REAL	TR1	0.796		UG/L	B	V1		1	NO	R	183
5887	01/09/04	GW11256ST	NAPHTHALENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	1460
5887	01/09/04	GW11256ST	n-BUTYLBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	
5887	01/09/04	GW11256ST	NICKEL	REAL	LD1	4.6		UG/L	B	1		1	NO	R	140
5887	01/09/04	GW11256ST	NICKEL	REAL	TR1	4.49		UG/L	B	V1		1	NO	R	140
5887	01/09/04	GW11256ST	NITRATE/NITRITE	REAL	TR1	2570		UG/L		V1	10	1	NO	R	10000
5887	01/09/04	GW11256ST	n-PROPYLBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	
5887	01/09/04	GW11256ST	p-CHLOROTOLUENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	
5887	01/09/04	GW11256ST	POTASSIUM	REAL	LD1	1010		UG/L	B	1		5	NO	R	
5887	01/09/04	GW11256ST	POTASSIUM	REAL	TR1	803		UG/L	B	V1		5	NO	R	
5887	01/09/04	GW11256ST	PROPANE, 1,2-DIBROMO-3-CHLORO-	REAL	TR1	1		UG/L	U	V1		1	NO	R	1
5887	01/09/04	GW11256ST	sec-BUTYLBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	
5887	01/09/04	GW11256ST	SELENIUM	REAL	LD1	2.07		UG/L	U	1		1	NO	R	50
5887	01/09/04	GW11256ST	SELENIUM	REAL	TR1	2.07		UG/L	U	V1		1	NO	R	50
5887	01/09/04	GW11256ST	SILVER	REAL	TR1	0.028		UG/L	B	V1		1	NO	R	183
5887	01/09/04	GW11256ST	SODIUM	REAL	TR1	10700		UG/L	B	V1		10	NO	R	
5887	01/09/04	GW11256ST	STRONTIUM	REAL	TR1	122		UG/L	B	V1		1	NO	R	21900
5887	01/09/04	GW11256ST	STYRENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	100
5887	01/09/04	GW11256ST	SULFATE	REAL	LD1	28400		UG/L		1	193	1	NO	R	500000
5887	01/09/04	GW11256ST	SULFATE	REAL	TR1	28200		UG/L		V1	193	1	NO	R	500000
5887	01/09/04	GW11256ST	tert-BUTYLBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	
5887	01/09/04	GW11256ST	TETRACHLOROETHENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	5
5887	01/09/04	GW11256ST	THALLIUM	REAL	TR1	0.052		UG/L	B	UJ1		1	NO	R	12
5887	01/09/04	GW11256ST	TIN	REAL	TR1	0.158		UG/L	B	UJ1		1	NO	R	21900
5887	01/09/04	GW11256ST	TOLUENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	1000
5887	01/09/04	GW11256ST	TOTAL XYLENES	REAL	TR1	3		UG/L	U	V1		1	NO	R	10000
5887	01/09/04	GW11256ST	trans-1,2-DICHLOROETHENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	70
5887	01/09/04	GW11256ST	trans-1,3-DICHLOROPROPENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	1
5887	01/09/04	GW11256ST	TRICHLOROETHENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	5
5887	01/09/04	GW11256ST	TRICHLOROFLUOROMETHANE	REAL	TR1	1		UG/L	U	UJ1		1	NO	R	

Location	Sample Date	Sample Number	Analyte	QC Code	Result Type	Result	Error 2 Sigma	Units	Result Qualifier	Validation	Detection Limit	Dilution	Filtered	Well Class	Tier1 (ug/L or pCi/L)
5887	01/09/04	GW11256ST	URANIUM, TOTAL	REAL	TR1	0.045		UG/L	B	V1		1	NO	R	
5887	01/09/04	GW11256ST	URANIUM-233,-234	REAL	TR1	0.747	.503	PCI/L	J	V1			NO	R	1.06
5887	01/09/04	GW11256ST	URANIUM-235	REAL	TR1	0.186	.334	PCI/L	U	V1			NO	R	1.01
5887	01/09/04	GW11256ST	URANIUM-238	REAL	TR1	0.334	.359	PCI/L	U	V1			NO	R	0.768
5887	01/09/04	GW11256ST	VANADIUM	REAL	TR1	2.61		UG/L	U	V1		1	NO	R	256
5887	01/09/04	GW11256ST	VANADIUM	REAL	LD1	2.61		UG/L	U	1		1	NO	R	256
5887	01/09/04	GW11256ST	VINYL CHLORIDE	REAL	TR1	1		UG/L	U	V1		1	NO	R	2
5887	01/09/04	GW11256ST	ZINC	REAL	LD1	8.87		UG/L	B	1		1	NO	R	11000
5887	01/09/04	GW11256ST	ZINC	REAL	TR1	8.77		UG/L	B	V1		1	NO	R	11000
70099	01/15/04	GW11251ST	NITRATE/NITRITE	REAL	TR1	650		UG/L		V1	50	5	NO	PM	10000
70099	02/18/04	GW11251ST	URANIUM-233,-234	REAL	LD1	121	20.3	PCI/L		1			YES	PM	1.06
70099	02/18/04	GW11251ST	URANIUM-233,-234	REAL	TR1	119	21.7	PCI/L		V1			YES	PM	1.06
70099	02/18/04	GW11251ST	URANIUM-235	REAL	LD1	8.43	1.82	PCI/L		1			YES	PM	1.01
70099	02/18/04	GW11251ST	URANIUM-235	REAL	TR1	12.5	2.77	PCI/L		V1			YES	PM	1.01
70099	02/18/04	GW11251ST	URANIUM-238	REAL	TR1	81.9	15.1	PCI/L		V1			YES	PM	0.768
70099	02/18/04	GW11251ST	URANIUM-238	REAL	LD1	87	14.7	PCI/L		1			YES	PM	0.768
70193	01/13/04	GW11260ST	1,1,1,2-TETRACHLOROETHANE	DUP	TR1	1		UG/L	U	V1		1	NO	R	
70193	01/13/04	GW11259ST	1,1,1,2-TETRACHLOROETHANE	REAL	TR1	1		UG/L	U	V1		1	NO	R	
70193	01/13/04	GW11261ST	1,1,1,2-TETRACHLOROETHANE	RNS	TR1	1		UG/L	U	V1		1	NO	R	
70193	01/13/04	GW11260ST	1,1,1-TRICHLOROETHANE	DUP	TR1	1		UG/L	U	V1		1	NO	R	200
70193	01/13/04	GW11259ST	1,1,1-TRICHLOROETHANE	REAL	TR1	1		UG/L	U	V1		1	NO	R	200
70193	01/13/04	GW11261ST	1,1,1-TRICHLOROETHANE	RNS	TR1	1		UG/L	U	V1		1	NO	R	200
70193	01/13/04	GW11260ST	1,1,2,2-TETRACHLOROETHANE	DUP	TR1	1		UG/L	U	V1		1	NO	R	1
70193	01/13/04	GW11259ST	1,1,2,2-TETRACHLOROETHANE	REAL	TR1	1		UG/L	U	V1		1	NO	R	1
70193	01/13/04	GW11261ST	1,1,2,2-TETRACHLOROETHANE	RNS	TR1	1		UG/L	U	V1		1	NO	R	1
70193	01/13/04	GW11260ST	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	DUP	TR1	5		UG/L	U	V1		1	NO	R	
70193	01/13/04	GW11259ST	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	REAL	TR1	5		UG/L	U	V1		1	NO	R	
70193	01/13/04	GW11261ST	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	RNS	TR1	5		UG/L	U	V1		1	NO	R	
70193	01/13/04	GW11260ST	1,1,2-TRICHLOROETHANE	DUP	TR1	1		UG/L	U	V1		1	NO	R	5
70193	01/13/04	GW11259ST	1,1,2-TRICHLOROETHANE	REAL	TR1	1		UG/L	U	V1		1	NO	R	5
70193	01/13/04	GW11261ST	1,1,2-TRICHLOROETHANE	RNS	TR1	1		UG/L	U	V1		1	NO	R	5
70193	01/13/04	GW11260ST	1,1-DICHLOROETHANE	DUP	TR1	1		UG/L	U	V1		1	NO	R	3650
70193	01/13/04	GW11259ST	1,1-DICHLOROETHANE	REAL	TR1	1		UG/L	U	V1		1	NO	R	3650
70193	01/13/04	GW11261ST	1,1-DICHLOROETHANE	RNS	TR1	1		UG/L	U	V1		1	NO	R	3650
70193	01/13/04	GW11260ST	1,1-DICHLOROETHENE	DUP	TR1	1		UG/L	U	V1		1	NO	R	7
70193	01/13/04	GW11259ST	1,1-DICHLOROETHENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	7
70193	01/13/04	GW11261ST	1,1-DICHLOROETHENE	RNS	TR1	1		UG/L	U	V1		1	NO	R	7
70193	01/13/04	GW11260ST	1,1-DICHLOROPROPENE	DUP	TR1	1		UG/L	U	V1		1	NO	R	
70193	01/13/04	GW11259ST	1,1-DICHLOROPROPENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	
70193	01/13/04	GW11261ST	1,1-DICHLOROPROPENE	RNS	TR1	1		UG/L	U	V1		1	NO	R	
70193	01/13/04	GW11260ST	1,2,3-TRICHLOROBENZENE	DUP	TR1	1		UG/L	U	V1		1	NO	R	
70193	01/13/04	GW11259ST	1,2,3-TRICHLOROBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	
70193	01/13/04	GW11261ST	1,2,3-TRICHLOROBENZENE	RNS	TR1	1		UG/L	U	V1		1	NO	R	
70193	01/13/04	GW11260ST	1,2,3-TRICHLOROPROPANE	DUP	TR1	1		UG/L	U	V1		1	NO	R	
70193	01/13/04	GW11259ST	1,2,3-TRICHLOROPROPANE	REAL	TR1	1		UG/L	U	V1		1	NO	R	
70193	01/13/04	GW11261ST	1,2,3-TRICHLOROPROPANE	RNS	TR1	1		UG/L	U	V1		1	NO	R	
70193	01/13/04	GW11260ST	1,2,4-TRICHLOROBENZENE	DUP	TR1	1		UG/L	U	V1		1	NO	R	70
70193	01/13/04	GW11259ST	1,2,4-TRICHLOROBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	70
70193	01/13/04	GW11261ST	1,2,4-TRICHLOROBENZENE	RNS	TR1	1		UG/L	U	V1		1	NO	R	70
70193	01/13/04	GW11260ST	1,2-DIBROMOETHANE	DUP	TR1	1		UG/L	U	V1		1	NO	R	
70193	01/13/04	GW11259ST	1,2-DIBROMOETHANE	REAL	TR1	1		UG/L	U	V1		1	NO	R	
70193	01/13/04	GW11261ST	1,2-DIBROMOETHANE	RNS	TR1	1		UG/L	U	V1		1	NO	R	
70193	01/13/04	GW11260ST	1,2-DICHLOROBENZENE	DUP	TR1	1		UG/L	U	V1		1	NO	R	600
70193	01/13/04	GW11259ST	1,2-DICHLOROBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	600
70193	01/13/04	GW11261ST	1,2-DICHLOROBENZENE	RNS	TR1	1		UG/L	U	V1		1	NO	R	600
70193	01/13/04	GW11260ST	1,2-DICHLOROETHANE	DUP	TR1	1		UG/L	U	V1		1	NO	R	5
70193	01/13/04	GW11259ST	1,2-DICHLOROETHANE	REAL	TR1	1		UG/L	U	V1		1	NO	R	5
70193	01/13/04	GW11261ST	1,2-DICHLOROETHANE	RNS	TR1	1		UG/L	U	V1		1	NO	R	5
70193	01/13/04	GW11260ST	1,2-DICHLOROPROPANE	DUP	TR1	1		UG/L	U	V1		1	NO	R	5
70193	01/13/04	GW11259ST	1,2-DICHLOROPROPANE	REAL	TR1	1		UG/L	U	V1		1	NO	R	5
70193	01/13/04	GW11261ST	1,2-DICHLOROPROPANE	RNS	TR1	1		UG/L	U	V1		1	NO	R	5
70193	01/13/04	GW11260ST	1,3-DICHLOROBENZENE	DUP	TR1	1		UG/L	U	V1		1	NO	R	600
70193	01/13/04	GW11259ST	1,3-DICHLOROBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	600

Location	Sample Date	Sample Number	Analyte	QC Code	Result Type	Result	Error 2 Sigma	Units	Result Qualifier	Validation	Detection Limit	Dilution	Filtered	Well Class	Tier1 (ug/L or pCi/L)
70193	01/13/04	GW11261ST	1,3-DICHLOROBENZENE	RNS	TR1	1		UG/L	U	V1		1	NO	R	600
70193	01/13/04	GW11260ST	1,3-DICHLOROPROPANE	DUP	TR1	1		UG/L	U	V1		1	NO	R	
70193	01/13/04	GW11259ST	1,3-DICHLOROPROPANE	REAL	TR1	1		UG/L	U	V1		1	NO	R	
70193	01/13/04	GW11261ST	1,3-DICHLOROPROPANE	RNS	TR1	1		UG/L	U	V1		1	NO	R	
70193	01/13/04	GW11260ST	1,4-DICHLOROBENZENE	DUP	TR1	1		UG/L	U	V1		1	NO	R	75
70193	01/13/04	GW11259ST	1,4-DICHLOROBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	75
70193	01/13/04	GW11261ST	1,4-DICHLOROBENZENE	RNS	TR1	1		UG/L	U	V1		1	NO	R	75
70193	01/13/04	GW11260ST	2,2-DICHLOROPROPANE	DUP	TR1	1		UG/L	U	V1		1	NO	R	
70193	01/13/04	GW11259ST	2,2-DICHLOROPROPANE	REAL	TR1	1		UG/L	U	V1		1	NO	R	
70193	01/13/04	GW11261ST	2,2-DICHLOROPROPANE	RNS	TR1	1		UG/L	U	V1		1	NO	R	
70193	01/13/04	GW11260ST	2-BUTANONE	DUP	TR1	10		UG/L	U	V1		1	NO	R	21900
70193	01/13/04	GW11259ST	2-BUTANONE	REAL	TR1	10		UG/L	U	V1		1	NO	R	21900
70193	01/13/04	GW11261ST	2-BUTANONE	RNS	TR1	10		UG/L	U	V1		1	NO	R	21900
70193	01/13/04	GW11260ST	2-CHLOROTOLUENE	DUP	TR1	1		UG/L	U	V1		1	NO	R	
70193	01/13/04	GW11259ST	2-CHLOROTOLUENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	
70193	01/13/04	GW11261ST	2-CHLOROTOLUENE	RNS	TR1	1		UG/L	U	V1		1	NO	R	
70193	01/13/04	GW11260ST	2-HEXANONE	DUP	TR1	10		UG/L	U	V1		1	NO	R	
70193	01/13/04	GW11259ST	2-HEXANONE	REAL	TR1	10		UG/L	U	V1		1	NO	R	
70193	01/13/04	GW11261ST	2-HEXANONE	RNS	TR1	10		UG/L	U	V1		1	NO	R	
70193	01/13/04	GW11260ST	4-ISOPROPYLTOLUENE	DUP	TR1	1		UG/L	U	V1		1	NO	R	
70193	01/13/04	GW11259ST	4-ISOPROPYLTOLUENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	
70193	01/13/04	GW11261ST	4-ISOPROPYLTOLUENE	RNS	TR1	1		UG/L	U	V1		1	NO	R	
70193	01/13/04	GW11260ST	4-METHYL-2-PENTANONE	DUP	TR1	10		UG/L	U	V1		1	NO	R	2920
70193	01/13/04	GW11259ST	4-METHYL-2-PENTANONE	REAL	TR1	10		UG/L	U	V1		1	NO	R	2920
70193	01/13/04	GW11261ST	4-METHYL-2-PENTANONE	RNS	TR1	10		UG/L	U	V1		1	NO	R	2920
70193	01/13/04	GW11260ST	ACETONE	DUP	TR1	10		UG/L	U	V1		1	NO	R	3650
70193	01/13/04	GW11259ST	ACETONE	REAL	TR1	10		UG/L	U	V1		1	NO	R	3650
70193	01/13/04	GW11261ST	ACETONE	RNS	TR1	2.6		UG/L	J	V1		1	NO	R	3650
70193	01/13/04	GW11260ST	ALUMINUM	DUP	TR1	13.7		UG/L	B	UJ1		1	YES	R	36500
70193	01/13/04	GW11259ST	ALUMINUM	REAL	TR1	15.8		UG/L	B	UJ1		1	YES	R	36500
70193	01/13/04	GW11261ST	ALUMINUM	RNS	TR1	7.25		UG/L	B	UJ1		1	YES	R	36500
70193	01/13/04	GW11260ST	ANTIMONY	DUP	TR1	0.142		UG/L	B	UJ1		1	YES	R	10
70193	01/13/04	GW11259ST	ANTIMONY	REAL	TR1	0.173		UG/L	B	UJ1		1	YES	R	10
70193	01/13/04	GW11261ST	ANTIMONY	RNS	TR1	0.148		UG/L	B	UJ1		1	YES	R	10
70193	01/13/04	GW11260ST	ARSENIC	DUP	TR1	1.03		UG/L	U	V1		1	YES	R	50
70193	01/13/04	GW11259ST	ARSENIC	REAL	TR1	1.03		UG/L	U	V1		1	YES	R	50
70193	01/13/04	GW11261ST	ARSENIC	RNS	TR1	1.03		UG/L	U	V1		1	YES	R	50
70193	01/13/04	GW11260ST	BARIUM	DUP	TR1	81.7		UG/L	B	V1		1	YES	R	2000
70193	01/13/04	GW11259ST	BARIUM	REAL	TR1	81.7		UG/L	B	V1		1	YES	R	2000
70193	01/13/04	GW11261ST	BARIUM	RNS	TR1	0.066		UG/L	B	UJ1		1	YES	R	2000
70193	01/13/04	GW11260ST	BENZENE	DUP	TR1	1		UG/L	U	V1		1	NO	R	5
70193	01/13/04	GW11259ST	BENZENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	5
70193	01/13/04	GW11261ST	BENZENE	RNS	TR1	1		UG/L	U	V1		1	NO	R	5
70193	01/13/04	GW11260ST	BENZENE, 1,2,4-TRIMETHYL	DUP	TR1	1		UG/L	U	V1		1	NO	R	
70193	01/13/04	GW11259ST	BENZENE, 1,2,4-TRIMETHYL	REAL	TR1	1		UG/L	U	V1		1	NO	R	
70193	01/13/04	GW11261ST	BENZENE, 1,2,4-TRIMETHYL	RNS	TR1	1		UG/L	U	V1		1	NO	R	
70193	01/13/04	GW11260ST	BENZENE, 1,3,5-TRIMETHYL-	DUP	TR1	1		UG/L	U	V1		1	NO	R	
70193	01/13/04	GW11259ST	BENZENE, 1,3,5-TRIMETHYL-	REAL	TR1	1		UG/L	U	V1		1	NO	R	
70193	01/13/04	GW11261ST	BENZENE, 1,3,5-TRIMETHYL-	RNS	TR1	1		UG/L	U	V1		1	NO	R	
70193	01/13/04	GW11260ST	BERYLLIUM	DUP	TR1	0.025		UG/L	U	V1		1	YES	R	5
70193	01/13/04	GW11259ST	BERYLLIUM	REAL	TR1	0.025		UG/L	U	V1		1	YES	R	5
70193	01/13/04	GW11261ST	BERYLLIUM	RNS	TR1	0.025		UG/L	U	V1		1	YES	R	5
70193	01/13/04	GW11260ST	BROMOBENZENE	DUP	TR1	1		UG/L	U	V1		1	NO	R	
70193	01/13/04	GW11259ST	BROMOBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	
70193	01/13/04	GW11261ST	BROMOBENZENE	RNS	TR1	1		UG/L	U	V1		1	NO	R	
70193	01/13/04	GW11260ST	BROMOCHLOROMETHANE	DUP	TR1	1		UG/L	U	V1		1	NO	R	
70193	01/13/04	GW11259ST	BROMOCHLOROMETHANE	REAL	TR1	1		UG/L	U	V1		1	NO	R	
70193	01/13/04	GW11261ST	BROMOCHLOROMETHANE	RNS	TR1	1		UG/L	U	V1		1	NO	R	
70193	01/13/04	GW11260ST	BROMODICHLOROMETHANE	DUP	TR1	1		UG/L	U	V1		1	NO	R	100
70193	01/13/04	GW11259ST	BROMODICHLOROMETHANE	REAL	TR1	1		UG/L	U	V1		1	NO	R	100
70193	01/13/04	GW11261ST	BROMODICHLOROMETHANE	RNS	TR1	1		UG/L	U	V1		1	NO	R	100
70193	01/13/04	GW11260ST	BROMOFORM	DUP	TR1	1		UG/L	U	UJ1		1	NO	R	100
70193	01/13/04	GW11259ST	BROMOFORM	REAL	TR1	1		UG/L	U	UJ1		1	NO	R	100

Location	Sample Date	Sample Number	Analyte	QC Code	Result Type	Result	Error 2 Sigma	Units	Result Qualifier	Validation	Detection Limit	Dilution	Filtered	Well Class	Tier1 (ug/L or pCi/L)
70193	01/13/04	GW11261ST	BROMOFORM	RNS	TR1	1		UG/L	U	UJ1		1	NO	R	100
70193	01/13/04	GW11260ST	BROMOMETHANE	DUP	TR1	1		UG/L	U	V1		1	NO	R	51.1
70193	01/13/04	GW11259ST	BROMOMETHANE	REAL	TR1	1		UG/L	U	V1		1	NO	R	51.1
70193	01/13/04	GW11261ST	BROMOMETHANE	RNS	TR1	1		UG/L	U	V1		1	NO	R	51.1
70193	01/13/04	GW11260ST	CADMIUM	DUP	TR1	0.039		UG/L	B	V1		1	YES	R	5
70193	01/13/04	GW11259ST	CADMIUM	REAL	TR1	0.037		UG/L	B	V1		1	YES	R	5
70193	01/13/04	GW11261ST	CADMIUM	RNS	TR1	0.016		UG/L	U	V1		1	YES	R	5
70193	01/13/04	GW11260ST	CALCIUM	DUP	TR1	22600		UG/L		V1		1	YES	R	
70193	01/13/04	GW11259ST	CALCIUM	REAL	TR1	22700		UG/L		V1		1	YES	R	
70193	01/13/04	GW11261ST	CALCIUM	RNS	TR1	94.2		UG/L	B	UJ1		1	YES	R	
70193	01/13/04	GW11260ST	CARBON DISULFIDE	DUP	TR1	5		UG/L	U	V1		1	NO	R	3650
70193	01/13/04	GW11259ST	CARBON DISULFIDE	REAL	TR1	5		UG/L	U	V1		1	NO	R	3650
70193	01/13/04	GW11261ST	CARBON DISULFIDE	RNS	TR1	5		UG/L	U	V1		1	NO	R	3650
70193	01/13/04	GW11260ST	CARBON TETRACHLORIDE	DUP	TR1	1		UG/L	U	V1		1	NO	R	5
70193	01/13/04	GW11259ST	CARBON TETRACHLORIDE	REAL	TR1	1		UG/L	U	V1		1	NO	R	5
70193	01/13/04	GW11261ST	CARBON TETRACHLORIDE	RNS	TR1	1		UG/L	U	V1		1	NO	R	5
70193	01/13/04	GW11260ST	CHLOROBENZENE	DUP	TR1	1		UG/L	U	V1		1	NO	R	100
70193	01/13/04	GW11259ST	CHLOROBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	100
70193	01/13/04	GW11261ST	CHLOROBENZENE	RNS	TR1	1		UG/L	U	V1		1	NO	R	100
70193	01/13/04	GW11260ST	CHLOROETHANE	DUP	TR1	1		UG/L	U	V1		1	NO	R	29.4
70193	01/13/04	GW11259ST	CHLOROETHANE	REAL	TR1	1		UG/L	U	V1		1	NO	R	29.4
70193	01/13/04	GW11261ST	CHLOROETHANE	RNS	TR1	1		UG/L	U	V1		1	NO	R	29.4
70193	01/13/04	GW11260ST	CHLOROFORM	DUP	TR1	1		UG/L	U	V1		1	NO	R	100
70193	01/13/04	GW11259ST	CHLOROFORM	REAL	TR1	1		UG/L	U	V1		1	NO	R	100
70193	01/13/04	GW11261ST	CHLOROFORM	RNS	TR1	1		UG/L	U	V1		1	NO	R	100
70193	01/13/04	GW11260ST	CHLOROMETHANE	DUP	TR1	1		UG/L	U	V1		1	NO	R	6.55
70193	01/13/04	GW11259ST	CHLOROMETHANE	REAL	TR1	1		UG/L	U	V1		1	NO	R	6.55
70193	01/13/04	GW11261ST	CHLOROMETHANE	RNS	TR1	1		UG/L	U	V1		1	NO	R	6.55
70193	01/13/04	GW11260ST	CHROMIUM	DUP	TR1	2.43		UG/L		UJ1		1	YES	R	100
70193	01/13/04	GW11259ST	CHROMIUM	REAL	TR1	2.57		UG/L		UJ1		1	YES	R	100
70193	01/13/04	GW11261ST	CHROMIUM	RNS	TR1	2.83		UG/L		UJ1		1	YES	R	100
70193	01/13/04	GW11260ST	cis-1,2-DICHLOROETHENE	DUP	TR1	1		UG/L	U	V1		1	NO	R	70
70193	01/13/04	GW11259ST	cis-1,2-DICHLOROETHENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	70
70193	01/13/04	GW11261ST	cis-1,2-DICHLOROETHENE	RNS	TR1	1		UG/L	U	V1		1	NO	R	70
70193	01/13/04	GW11260ST	cis-1,3-DICHLOROPROPENE	DUP	TR1	1		UG/L	U	V1		1	NO	R	1
70193	01/13/04	GW11259ST	cis-1,3-DICHLOROPROPENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	1
70193	01/13/04	GW11261ST	cis-1,3-DICHLOROPROPENE	RNS	TR1	1		UG/L	U	V1		1	NO	R	1
70193	01/13/04	GW11260ST	COBALT	DUP	TR1	0.646		UG/L	B	V1		1	YES	R	2190
70193	01/13/04	GW11259ST	COBALT	REAL	TR1	0.415		UG/L	B	V1		1	YES	R	2190
70193	01/13/04	GW11261ST	COBALT	RNS	TR1	0.204		UG/L	B	V1		1	YES	R	2190
70193	01/13/04	GW11260ST	COPPER	DUP	TR1	0.906		UG/L	B	UJ1		1	YES	R	1300
70193	01/13/04	GW11259ST	COPPER	REAL	TR1	1.33		UG/L	B	UJ1		1	YES	R	1300
70193	01/13/04	GW11261ST	COPPER	RNS	TR1	5.94		UG/L		J1		1	YES	R	1300
70193	01/13/04	GW11260ST	DIBROMOCHLOROMETHANE	DUP	TR1	1		UG/L	U	V1		1	NO	R	1.01
70193	01/13/04	GW11259ST	DIBROMOCHLOROMETHANE	REAL	TR1	1		UG/L	U	V1		1	NO	R	1.01
70193	01/13/04	GW11261ST	DIBROMOCHLOROMETHANE	RNS	TR1	1		UG/L	U	V1		1	NO	R	1.01
70193	01/13/04	GW11260ST	DIBROMOMETHANE	DUP	TR1	1		UG/L	U	V1		1	NO	R	
70193	01/13/04	GW11259ST	DIBROMOMETHANE	REAL	TR1	1		UG/L	U	V1		1	NO	R	
70193	01/13/04	GW11261ST	DIBROMOMETHANE	RNS	TR1	1		UG/L	U	V1		1	NO	R	
70193	01/13/04	GW11260ST	DICHLORODIFLUOROMETHANE	DUP	TR1	1		UG/L	U	V1		1	NO	R	
70193	01/13/04	GW11259ST	DICHLORODIFLUOROMETHANE	REAL	TR1	1		UG/L	U	V1		1	NO	R	
70193	01/13/04	GW11261ST	DICHLORODIFLUOROMETHANE	RNS	TR1	1		UG/L	U	V1		1	NO	R	
70193	01/13/04	GW11260ST	ETHYLBENZENE	DUP	TR1	1		UG/L	U	V1		1	NO	R	700
70193	01/13/04	GW11259ST	ETHYLBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	700
70193	01/13/04	GW11261ST	ETHYLBENZENE	RNS	TR1	1		UG/L	U	V1		1	NO	R	700
70193	01/13/04	GW11260ST	FLUORIDE	DUP	TR1	281		UG/L	B	V1	55.3	1	NO	R	4000
70193	01/13/04	GW11259ST	FLUORIDE	REAL	TR1	285		UG/L	B	V1	55.3	1	NO	R	4000
70193	01/13/04	GW11261ST	FLUORIDE	RNS	TR1	5		UG/L	U	V1	55.3	1	NO	R	4000
70193	01/13/04	GW11260ST	HEXACHLOROBUTADIENE	DUP	TR1	1		UG/L	U	V1		1	NO	R	10
70193	01/13/04	GW11259ST	HEXACHLOROBUTADIENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	10
70193	01/13/04	GW11261ST	HEXACHLOROBUTADIENE	RNS	TR1	1		UG/L	U	V1		1	NO	R	10
70193	01/13/04	GW11260ST	IRON	DUP	TR1	92.2		UG/L	B	V1		1	YES	R	
70193	01/13/04	GW11259ST	IRON	REAL	TR1	95.4		UG/L	B	V1		1	YES	R	

Location	Sample Date	Sample Number	Analyte	QC Code	Result Type	Result	Error 2 Sigma	Units	Result Qualifier	Validation	Detection Limit	Dilution	Filtered	Well Class	Tier1 (ug/L or pCi/L)
70193	01/13/04	GW11261ST	IRON	RNS	TR1	19.9		UG/L	B	UJ1		1	YES	R	
70193	01/13/04	GW11260ST	ISOPROPYLBENZENE	DUP	TR1	1		UG/L	U	V1		1	NO	R	
70193	01/13/04	GW11259ST	ISOPROPYLBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	
70193	01/13/04	GW11261ST	ISOPROPYLBENZENE	RNS	TR1	1		UG/L	U	V1		1	NO	R	
70193	01/13/04	GW11260ST	LEAD	DUP	TR1	0.064		UG/L	B	UJ1		1	YES	R	15
70193	01/13/04	GW11259ST	LEAD	REAL	TR1	0.078		UG/L	B	UJ1		1	YES	R	15
70193	01/13/04	GW11261ST	LEAD	RNS	TR1	1.71		UG/L	B	J1		1	YES	R	15
70193	01/13/04	GW11260ST	LITHIUM	DUP	TR1	7.77		UG/L	B	V1		1	YES	R	730
70193	01/13/04	GW11259ST	LITHIUM	REAL	TR1	7.82		UG/L	B	V1		1	YES	R	730
70193	01/13/04	GW11261ST	LITHIUM	RNS	TR1	0.219		UG/L	B	V1		1	YES	R	730
70193	01/13/04	GW11260ST	MAGNESIUM	DUP	TR1	4290		UG/L	B	V1		1	YES	R	
70193	01/13/04	GW11259ST	MAGNESIUM	REAL	TR1	4540		UG/L	B	V1		1	YES	R	
70193	01/13/04	GW11261ST	MAGNESIUM	RNS	TR1	4.73		UG/L	B	V1		1	YES	R	
70193	01/13/04	GW11260ST	MANGANESE	DUP	TR1	1.38		UG/L	BE	J1		1	YES	R	1720
70193	01/13/04	GW11259ST	MANGANESE	REAL	TR1	1.02		UG/L	BE	J1		1	YES	R	1720
70193	01/13/04	GW11261ST	MANGANESE	RNS	TR1	0.57		UG/L	BE	UJ1		1	YES	R	1720
70193	01/13/04	GW11260ST	MERCURY	DUP	TR1	0.033		UG/L	U	J1		1	YES	R	2
70193	01/13/04	GW11259ST	MERCURY	REAL	TR1	0.033		UG/L	U	J1		1	YES	R	2
70193	01/13/04	GW11261ST	MERCURY	RNS	TR1	0.033		UG/L	U	J1		1	YES	R	2
70193	01/13/04	GW11260ST	METHYLENE CHLORIDE	DUP	TR1	1		UG/L	U	V1		1	NO	R	5
70193	01/13/04	GW11259ST	METHYLENE CHLORIDE	REAL	TR1	1		UG/L	U	V1		1	NO	R	5
70193	01/13/04	GW11261ST	METHYLENE CHLORIDE	RNS	TR1	1		UG/L	U	V1		1	NO	R	5
70193	01/13/04	GW11260ST	MOLYBDENUM	DUP	TR1	1.07		UG/L	B	V1		1	YES	R	183
70193	01/13/04	GW11259ST	MOLYBDENUM	REAL	TR1	1.07		UG/L	B	V1		1	YES	R	183
70193	01/13/04	GW11261ST	MOLYBDENUM	RNS	TR1	0.046		UG/L	U	V1		1	YES	R	183
70193	01/13/04	GW11260ST	NAPHTHALENE	DUP	TR1	1		UG/L	U	V1		1	NO	R	1460
70193	01/13/04	GW11259ST	NAPHTHALENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	1460
70193	01/13/04	GW11261ST	NAPHTHALENE	RNS	TR1	1		UG/L	U	V1		1	NO	R	1460
70193	01/13/04	GW11260ST	n-BUTYLBENZENE	DUP	TR1	1		UG/L	U	V1		1	NO	R	
70193	01/13/04	GW11259ST	n-BUTYLBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	
70193	01/13/04	GW11261ST	n-BUTYLBENZENE	RNS	TR1	1		UG/L	U	V1		1	NO	R	
70193	01/13/04	GW11260ST	NICKEL	DUP	TR1	0.904		UG/L	B	UJ1		1	YES	R	140
70193	01/13/04	GW11259ST	NICKEL	REAL	TR1	0.912		UG/L	B	UJ1		1	YES	R	140
70193	01/13/04	GW11261ST	NICKEL	RNS	TR1	0.649		UG/L	B	UJ1		1	YES	R	140
70193	01/13/04	GW11260ST	NITRATE/NITRITE	DUP	TR1	2570		UG/L		V1	10	1	NO	R	10000
70193	01/13/04	GW11259ST	NITRATE/NITRITE	REAL	TR1	2530		UG/L		V1	10	1	NO	R	10000
70193	01/13/04	GW11261ST	NITRATE/NITRITE	RNS	TR1	10		UG/L	U	V1	10	1	NO	R	10000
70193	01/13/04	GW11260ST	n-PROPYLBENZENE	DUP	TR1	1		UG/L	U	V1		1	NO	R	
70193	01/13/04	GW11259ST	n-PROPYLBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	
70193	01/13/04	GW11261ST	n-PROPYLBENZENE	RNS	TR1	1		UG/L	U	V1		1	NO	R	
70193	01/13/04	GW11260ST	p-CHLOROTOLUENE	DUP	TR1	1		UG/L	U	V1		1	NO	R	
70193	01/13/04	GW11259ST	p-CHLOROTOLUENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	
70193	01/13/04	GW11261ST	p-CHLOROTOLUENE	RNS	TR1	1		UG/L	U	V1		1	NO	R	
70193	01/13/04	GW11260ST	POTASSIUM	DUP	TR1	1110		UG/L	B	V1		1	YES	R	
70193	01/13/04	GW11259ST	POTASSIUM	REAL	TR1	1080		UG/L	B	V1		1	YES	R	
70193	01/13/04	GW11261ST	POTASSIUM	RNS	TR1	58.3		UG/L	B	V1		1	YES	R	
70193	01/13/04	GW11260ST	PROPANE, 1,2-DIBROMO-3-CHLORO-	DUP	TR1	1		UG/L	U	V1		1	NO	R	1
70193	01/13/04	GW11259ST	PROPANE, 1,2-DIBROMO-3-CHLORO-	REAL	TR1	1		UG/L	U	V1		1	NO	R	1
70193	01/13/04	GW11261ST	PROPANE, 1,2-DIBROMO-3-CHLORO-	RNS	TR1	1		UG/L	U	V1		1	NO	R	1
70193	01/13/04	GW11260ST	sec-BUTYLBENZENE	DUP	TR1	1		UG/L	U	V1		1	NO	R	
70193	01/13/04	GW11259ST	sec-BUTYLBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	
70193	01/13/04	GW11261ST	sec-BUTYLBENZENE	RNS	TR1	1		UG/L	U	V1		1	NO	R	
70193	01/13/04	GW11260ST	SELENIUM	DUP	TR1	7.1		UG/L		V1		1	YES	R	50
70193	01/13/04	GW11259ST	SELENIUM	REAL	TR1	7.31		UG/L		V1		1	YES	R	50
70193	01/13/04	GW11261ST	SELENIUM	RNS	TR1	1.56		UG/L	U	V1		1	YES	R	50
70193	01/13/04	GW11260ST	SILVER	DUP	TR1	0.008		UG/L	U	V1		1	YES	R	183
70193	01/13/04	GW11259ST	SILVER	REAL	TR1	0.008		UG/L	U	V1		1	YES	R	183
70193	01/13/04	GW11261ST	SILVER	RNS	TR1	0.008		UG/L	U	V1		1	YES	R	183
70193	01/13/04	GW11260ST	SODIUM	DUP	TR1	11900		UG/L		V1		1	YES	R	
70193	01/13/04	GW11259ST	SODIUM	REAL	TR1	13100		UG/L		V1		1	YES	R	
70193	01/13/04	GW11261ST	SODIUM	RNS	TR1	411		UG/L	B	V1		1	YES	R	
70193	01/13/04	GW11260ST	STRONTIUM	DUP	TR1	158		UG/L	BE	J1		1	YES	R	21900
70193	01/13/04	GW11259ST	STRONTIUM	REAL	TR1	157		UG/L	BE	J1		1	YES	R	21900

Location	Sample Date	Sample Number	Analyte	QC Code	Result Type	Result	Error 2 Sigma	Units	Result Qualifier	Validation	Detection Limit	Dilution	Filtered	Well Class	Tier1 (ug/L or pCi/L)
70193	01/13/04	GW11261ST	STRONTIUM	RNS	TR1	0.1		UG/L	BE	UJ1		1	YES	R	21900
70193	01/13/04	GW11260ST	STYRENE	DUP	TR1	1		UG/L	U	V1		1	NO	R	100
70193	01/13/04	GW11259ST	STYRENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	100
70193	01/13/04	GW11261ST	STYRENE	RNS	TR1	1		UG/L	U	V1		1	NO	R	100
70193	01/13/04	GW11260ST	SULFATE	DUP	TR1	21700		UG/L		V1	193	1	NO	R	500000
70193	01/13/04	GW11259ST	SULFATE	REAL	TR1	21500		UG/L		V1	193	1	NO	R	500000
70193	01/13/04	GW11261ST	SULFATE	RNS	TR1	8		UG/L	U	V1	193	1	NO	R	500000
70193	01/13/04	GW11260ST	tert-BUTYLBENZENE	DUP	TR1	1		UG/L	U	V1		1	NO	R	
70193	01/13/04	GW11259ST	tert-BUTYLBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	
70193	01/13/04	GW11261ST	tert-BUTYLBENZENE	RNS	TR1	1		UG/L	U	V1		1	NO	R	
70193	01/13/04	GW11260ST	TETRACHLOROETHENE	DUP	TR1	1		UG/L	U	V1		1	NO	R	5
70193	01/13/04	GW11259ST	TETRACHLOROETHENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	5
70193	01/13/04	GW11261ST	TETRACHLOROETHENE	RNS	TR1	1		UG/L	U	V1		1	NO	R	5
70193	01/13/04	GW11260ST	THALLIUM	DUP	TR1	0.04		UG/L	B	UJ1		1	YES	R	12
70193	01/13/04	GW11259ST	THALLIUM	REAL	TR1	0.053		UG/L	B	UJ1		1	YES	R	12
70193	01/13/04	GW11261ST	THALLIUM	RNS	TR1	0.027		UG/L	B	UJ1		1	YES	R	12
70193	01/13/04	GW11260ST	TIN	DUP	TR1	0.264		UG/L	B	UJ1		1	YES	R	21900
70193	01/13/04	GW11259ST	TIN	REAL	TR1	0.208		UG/L	B	UJ1		1	YES	R	21900
70193	01/13/04	GW11261ST	TIN	RNS	TR1	0.408		UG/L	B	UJ1		1	YES	R	21900
70193	01/13/04	GW11260ST	TOLUENE	DUP	TR1	1		UG/L	U	V1		1	NO	R	1000
70193	01/13/04	GW11259ST	TOLUENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	1000
70193	01/13/04	GW11261ST	TOLUENE	RNS	TR1	1		UG/L	U	V1		1	NO	R	1000
70193	01/13/04	GW11260ST	TOTAL XYLENES	DUP	TR1	3		UG/L	U	V1		1	NO	R	10000
70193	01/13/04	GW11259ST	TOTAL XYLENES	REAL	TR1	3		UG/L	U	V1		1	NO	R	10000
70193	01/13/04	GW11261ST	TOTAL XYLENES	RNS	TR1	3		UG/L	U	V1		1	NO	R	10000
70193	01/13/04	GW11260ST	trans-1,2-DICHLOROETHENE	DUP	TR1	1		UG/L	U	V1		1	NO	R	70
70193	01/13/04	GW11259ST	trans-1,2-DICHLOROETHENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	70
70193	01/13/04	GW11261ST	trans-1,2-DICHLOROETHENE	RNS	TR1	1		UG/L	U	V1		1	NO	R	70
70193	01/13/04	GW11260ST	trans-1,3-DICHLOROPROPENE	DUP	TR1	1		UG/L	U	V1		1	NO	R	1
70193	01/13/04	GW11259ST	trans-1,3-DICHLOROPROPENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	1
70193	01/13/04	GW11261ST	trans-1,3-DICHLOROPROPENE	RNS	TR1	1		UG/L	U	V1		1	NO	R	1
70193	01/13/04	GW11260ST	TRICHLOROETHENE	DUP	TR1	1		UG/L	U	V1		1	NO	R	5
70193	01/13/04	GW11259ST	TRICHLOROETHENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	5
70193	01/13/04	GW11261ST	TRICHLOROETHENE	RNS	TR1	1		UG/L	U	V1		1	NO	R	5
70193	01/13/04	GW11260ST	TRICHLOROFLUOROMETHANE	DUP	TR1	1		UG/L	U	V1		1	NO	R	
70193	01/13/04	GW11259ST	TRICHLOROFLUOROMETHANE	REAL	TR1	1		UG/L	U	V1		1	NO	R	
70193	01/13/04	GW11261ST	TRICHLOROFLUOROMETHANE	RNS	TR1	1		UG/L	U	V1		1	NO	R	
70193	01/13/04	GW11260ST	URANIUM, TOTAL	DUP	TR1	0.144		UG/L	B	V1		1	YES	R	
70193	01/13/04	GW11259ST	URANIUM, TOTAL	REAL	TR1	0.146		UG/L	B	V1		1	YES	R	
70193	01/13/04	GW11261ST	URANIUM, TOTAL	RNS	TR1	0.003		UG/L	U	V1		1	YES	R	
70193	01/13/04	GW11260ST	URANIUM-233,234	DUP	TR1	0.143	.254	PC/L	U	V			YES	R	1.06
70193	01/13/04	GW11259ST	URANIUM-233,234	REAL	TR1	-0.0672	.247	PC/L	U	V			YES	R	1.06
70193	01/13/04	GW11261ST	URANIUM-233,234	RNS	TR1	1	.661	PC/L	U	V			YES	R	1.06
70193	01/13/04	GW11260ST	URANIUM-235	DUP	TR1	0.304	.246	PC/L	J	V			YES	R	1.01
70193	01/13/04	GW11259ST	URANIUM-235	REAL	TR1	-0.0449	.202	PC/L	U	V			YES	R	1.01
70193	01/13/04	GW11261ST	URANIUM-235	RNS	TR1	0.293	.334	PC/L	J	V			YES	R	1.01
70193	01/13/04	GW11260ST	URANIUM-238	DUP	TR1	-0.00808	.187	PC/L	U	V			YES	R	0.768
70193	01/13/04	GW11259ST	URANIUM-238	REAL	TR1	0.116	.188	PC/L	U	V			YES	R	0.768
70193	01/13/04	GW11261ST	URANIUM-238	RNS	TR1	0.152	.384	PC/L	U	V			YES	R	0.768
70193	01/13/04	GW11260ST	VANADIUM	DUP	TR1	0.904		UG/L	U	J1		1	YES	R	256
70193	01/13/04	GW11259ST	VANADIUM	REAL	TR1	0.904		UG/L	U	J1		1	YES	R	256
70193	01/13/04	GW11261ST	VANADIUM	RNS	TR1	0.904		UG/L	U	J1		1	YES	R	256
70193	01/13/04	GW11260ST	VINYL CHLORIDE	DUP	TR1	1		UG/L	U	V1		1	NO	R	2
70193	01/13/04	GW11259ST	VINYL CHLORIDE	REAL	TR1	1		UG/L	U	V1		1	NO	R	2
70193	01/13/04	GW11261ST	VINYL CHLORIDE	RNS	TR1	1		UG/L	U	V1		1	NO	R	2
70193	01/13/04	GW11260ST	ZINC	DUP	TR1	1.81		UG/L	B	UJ1		1	YES	R	11000
70193	01/13/04	GW11259ST	ZINC	REAL	TR1	2.85		UG/L	B	UJ1		1	YES	R	11000
70193	01/13/04	GW11261ST	ZINC	RNS	TR1	1.98		UG/L	B	UJ1		1	YES	R	11000
70299	01/07/04	GW11252ST	NITRATE/NITRITE	REAL	TR1	10		UG/L	U	V1	10	1	NO	PM	10000
70299	01/07/04	GW11252ST	URANIUM-233,234	REAL	TR1	4.26	1.02	PC/L		V1			YES	PM	1.06
70299	01/07/04	GW11252ST	URANIUM-235	REAL	TR1	0.246	.248	PC/L	U	V1			YES	PM	1.01
70299	01/07/04	GW11252ST	URANIUM-238	REAL	TR1	2.84	.784	PC/L		V1			YES	PM	0.768
70393	01/12/04	GW11263ST	1,1,1,2-TETRACHLOROETHANE	REAL	TR1	1		UG/L	U	V1		1	NO	R	

Location	Sample Date	Sample Number	Analyte	QC Code	Result Type	Result	Error 2 Sigma	Units	Result Qualifier	Validation	Detection Limit	Dilution	Filtered	Well Class	Tier1 (ug/L or pCi/L)
70393	01/12/04	GW11262ST	1,1,1,2-TETRACHLOROETHANE	REAL	TR1	1		UG/L	U	V1		1	NO	R	
70393	01/12/04	GW11263ST	1,1,1-TRICHLOROETHANE	REAL	TR1	0.66		UG/L	J	V1		1	NO	R	200
70393	01/12/04	GW11262ST	1,1,1-TRICHLOROETHANE	REAL	TR1	8.1		UG/L		V1		1	NO	R	200
70393	01/12/04	GW11263ST	1,1,2,2-TETRACHLOROETHANE	REAL	TR1	1		UG/L	U	V1		1	NO	R	1
70393	01/12/04	GW11262ST	1,1,2,2-TETRACHLOROETHANE	REAL	TR1	1		UG/L	U	V1		1	NO	R	1
70393	01/12/04	GW11263ST	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	REAL	TR1	5		UG/L	U	V1		1	NO	R	
70393	01/12/04	GW11262ST	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	REAL	TR1	5		UG/L	U	V1		1	NO	R	
70393	01/12/04	GW11263ST	1,1,2-TRICHLOROETHANE	REAL	TR1	1		UG/L	U	V1		1	NO	R	5
70393	01/12/04	GW11262ST	1,1,2-TRICHLOROETHANE	REAL	TR1	1		UG/L	U	V1		1	NO	R	5
70393	01/12/04	GW11263ST	1,1-DICHLOROETHANE	REAL	TR1	1		UG/L	U	V1		1	NO	R	3650
70393	01/12/04	GW11262ST	1,1-DICHLOROETHANE	REAL	TR1	1		UG/L	U	V1		1	NO	R	3650
70393	01/12/04	GW11262ST	1,1-DICHLOROETHENE	REAL	TR1	7.7		UG/L		V1		1	NO	R	7
70393	01/12/04	GW11263ST	1,1-DICHLOROETHENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	7
70393	01/12/04	GW11263ST	1,1-DICHLOROPROPENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	
70393	01/12/04	GW11262ST	1,1-DICHLOROPROPENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	
70393	01/12/04	GW11263ST	1,2,3-TRICHLOROBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	
70393	01/12/04	GW11262ST	1,2,3-TRICHLOROBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	
70393	01/12/04	GW11263ST	1,2,3-TRICHLOROPROPANE	REAL	TR1	1		UG/L	U	V1		1	NO	R	
70393	01/12/04	GW11262ST	1,2,3-TRICHLOROPROPANE	REAL	TR1	1		UG/L	U	V1		1	NO	R	
70393	01/12/04	GW11263ST	1,2,4-TRICHLOROBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	70
70393	01/12/04	GW11262ST	1,2,4-TRICHLOROBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	70
70393	01/12/04	GW11262ST	1,2-DIBROMOETHANE	REAL	TR1	1		UG/L	U	V1		1	NO	R	
70393	01/12/04	GW11263ST	1,2-DIBROMOETHANE	REAL	TR1	1		UG/L	U	V1		1	NO	R	
70393	01/12/04	GW11262ST	1,2-DICHLOROBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	600
70393	01/12/04	GW11263ST	1,2-DICHLOROBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	600
70393	01/12/04	GW11263ST	1,2-DICHLOROETHANE	REAL	TR1	1		UG/L	U	V1		1	NO	R	5
70393	01/12/04	GW11262ST	1,2-DICHLOROETHANE	REAL	TR1	1		UG/L	U	V1		1	NO	R	5
70393	01/12/04	GW11263ST	1,2-DICHLOROPROPANE	REAL	TR1	1		UG/L	U	V1		1	NO	R	5
70393	01/12/04	GW11262ST	1,2-DICHLOROPROPANE	REAL	TR1	1		UG/L	U	V1		1	NO	R	5
70393	01/12/04	GW11262ST	1,3-DICHLOROBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	600
70393	01/12/04	GW11263ST	1,3-DICHLOROBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	600
70393	01/12/04	GW11263ST	1,3-DICHLOROPROPANE	REAL	TR1	1		UG/L	U	V1		1	NO	R	
70393	01/12/04	GW11262ST	1,3-DICHLOROPROPANE	REAL	TR1	1		UG/L	U	V1		1	NO	R	
70393	01/12/04	GW11263ST	1,4-DICHLOROBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	75
70393	01/12/04	GW11262ST	1,4-DICHLOROBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	75
70393	01/12/04	GW11262ST	2,2-DICHLOROPROPANE	REAL	TR1	1		UG/L	U	V1		1	NO	R	
70393	01/12/04	GW11263ST	2,2-DICHLOROPROPANE	REAL	TR1	1		UG/L	U	V1		1	NO	R	
70393	01/12/04	GW11263ST	2-BUTANONE	REAL	TR1	10		UG/L	U	V1		1	NO	R	21900
70393	01/12/04	GW11262ST	2-BUTANONE	REAL	TR1	10		UG/L	U	V1		1	NO	R	21900
70393	01/12/04	GW11263ST	2-CHLOROTOLUENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	
70393	01/12/04	GW11262ST	2-CHLOROTOLUENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	
70393	01/12/04	GW11263ST	2-HEXANONE	REAL	TR1	10		UG/L	U	V1		1	NO	R	
70393	01/12/04	GW11262ST	2-HEXANONE	REAL	TR1	10		UG/L	U	V1		1	NO	R	
70393	01/12/04	GW11263ST	4-ISOPROPYLTOLUENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	
70393	01/12/04	GW11262ST	4-ISOPROPYLTOLUENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	
70393	01/12/04	GW11262ST	4-METHYL-2-PENTANONE	REAL	TR1	10		UG/L	U	V1		1	NO	R	2920
70393	01/12/04	GW11263ST	4-METHYL-2-PENTANONE	REAL	TR1	10		UG/L	U	V1		1	NO	R	2920
70393	01/12/04	GW11262ST	ACETONE	REAL	TR1	10		UG/L	U	V1		1	NO	R	3650
70393	01/12/04	GW11263ST	ACETONE	REAL	TR1	10		UG/L	U	V1		1	NO	R	3650
70393	01/12/04	GW11263ST	ALUMINUM	REAL	TR1	7.13		UG/L	B	UJ1		1	YES	R	36500
70393	01/12/04	GW11262ST	ALUMINUM	REAL	LD1	14.9		UG/L	B	1		1	NO	R	36500
70393	01/12/04	GW11262ST	ALUMINUM	REAL	TR1	17.2		UG/L		UJ1		1	NO	R	36500
70393	01/12/04	GW11262ST	ANTIMONY	REAL	LD1	0.188		UG/L	B	1		1	NO	R	10
70393	01/12/04	GW11262ST	ANTIMONY	REAL	TR1	0.236		UG/L	B	UJ1		1	NO	R	10
70393	01/12/04	GW11263ST	ANTIMONY	REAL	TR1	0.292		UG/L	B	UJ1		1	YES	R	10
70393	01/12/04	GW11262ST	ARSENIC	REAL	TR1	1.03		UG/L	U	V1		1	NO	R	50
70393	01/12/04	GW11262ST	ARSENIC	REAL	LD1	1.03		UG/L	U	1		1	NO	R	50
70393	01/12/04	GW11263ST	ARSENIC	REAL	TR1	1.03		UG/L	U	V1		1	YES	R	50
70393	01/12/04	GW11263ST	BARIUM	REAL	TR1	102		UG/L		V1		1	YES	R	2000
70393	01/12/04	GW11262ST	BARIUM	REAL	LD1	62.6		UG/L	B	1		1	NO	R	2000
70393	01/12/04	GW11262ST	BARIUM	REAL	TR1	63.4		UG/L	B	V1		1	NO	R	2000
70393	01/12/04	GW11262ST	BENZENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	5
70393	01/12/04	GW11263ST	BENZENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	5

Location	Sample Date	Sample Number	Analyte	QC Code	Result Type	Result	Error 2 Sigma	Units	Result Qualifier	Validation	Detection Limit	Dilution	Filtered	Well Class	Tier/I (ug/L or pCi/L)
70393	01/12/04	GW11262ST	BENZENE, 1,2,4-TRIMETHYL	REAL	TR1	1		UG/L	U	V1		1	NO	R	
70393	01/12/04	GW11263ST	BENZENE, 1,2,4-TRIMETHYL	REAL	TR1	1		UG/L	U	V1		1	NO	R	
70393	01/12/04	GW11262ST	BENZENE, 1,3,5-TRIMETHYL	REAL	TR1	1		UG/L	U	V1		1	NO	R	
70393	01/12/04	GW11263ST	BENZENE, 1,3,5-TRIMETHYL	REAL	TR1	1		UG/L	U	V1		1	NO	R	
70393	01/12/04	GW11262ST	BERYLLIUM	REAL	LD1	0.025		UG/L	U	1		1	NO	R	5
70393	01/12/04	GW11263ST	BERYLLIUM	REAL	TR1	0.025		UG/L	U	V1		1	YES	R	5
70393	01/12/04	GW11262ST	BERYLLIUM	REAL	TR1	0.031		UG/L	B	V1		1	NO	R	5
70393	01/12/04	GW11262ST	BROMOBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	
70393	01/12/04	GW11263ST	BROMOBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	
70393	01/12/04	GW11262ST	BROMOCHLOROMETHANE	REAL	TR1	1		UG/L	U	V1		1	NO	R	
70393	01/12/04	GW11263ST	BROMOCHLOROMETHANE	REAL	TR1	1		UG/L	U	V1		1	NO	R	
70393	01/12/04	GW11262ST	BROMOCHLOROMETHANE	REAL	TR1	1		UG/L	U	V1		1	NO	R	
70393	01/12/04	GW11263ST	BROMOCHLOROMETHANE	REAL	TR1	1		UG/L	U	V1		1	NO	R	100
70393	01/12/04	GW11263ST	BROMODICHLOROMETHANE	REAL	TR1	1		UG/L	U	V1		1	NO	R	100
70393	01/12/04	GW11263ST	BROMODICHLOROMETHANE	REAL	TR1	1		UG/L	U	V1		1	NO	R	100
70393	01/12/04	GW11263ST	BROMOFORM	REAL	TR1	1		UG/L	U	UJ1		1	NO	R	100
70393	01/12/04	GW11262ST	BROMOFORM	REAL	TR1	1		UG/L	U	UJ1		1	NO	R	100
70393	01/12/04	GW11262ST	BROMOMETHANE	REAL	TR1	1		UG/L	U	V1		1	NO	R	51.1
70393	01/12/04	GW11263ST	BROMOMETHANE	REAL	TR1	1		UG/L	U	V1		1	NO	R	51.1
70393	01/12/04	GW11262ST	CADMIUM	REAL	LD1	0.044		UG/L	B	1		1	NO	R	5
70393	01/12/04	GW11263ST	CADMIUM	REAL	TR1	0.037		UG/L	B	V1		1	YES	R	5
70393	01/12/04	GW11262ST	CADMIUM	REAL	TR1	0.047		UG/L	B	V1		1	NO	R	5
70393	01/12/04	GW11262ST	CALCIUM	REAL	LD1	20200		UG/L		1		1	NO	R	
70393	01/12/04	GW11262ST	CALCIUM	REAL	TR1	20500		UG/L		V1		1	NO	R	
70393	01/12/04	GW11263ST	CALCIUM	REAL	TR1	31300		UG/L		V1		1	YES	R	
70393	01/12/04	GW11263ST	CARBON DISULFIDE	REAL	TR1	5		UG/L	U	V1		1	NO	R	3650
70393	01/12/04	GW11262ST	CARBON DISULFIDE	REAL	TR1	5		UG/L	U	V1		1	NO	R	3650
70393	01/12/04	GW11262ST	CARBON TETRACHLORIDE	REAL	TR1	1		UG/L	U	V1		1	NO	R	5
70393	01/12/04	GW11263ST	CARBON TETRACHLORIDE	REAL	TR1	1		UG/L	U	V1		1	NO	R	5
70393	01/12/04	GW11263ST	CHLOROBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	100
70393	01/12/04	GW11262ST	CHLOROBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	100
70393	01/12/04	GW11263ST	CHLOROETHANE	REAL	TR1	1		UG/L	U	V1		1	NO	R	29.4
70393	01/12/04	GW11262ST	CHLOROETHANE	REAL	TR1	1		UG/L	U	V1		1	NO	R	29.4
70393	01/12/04	GW11262ST	CHLOROFORM	REAL	TR1	1		UG/L	U	V1		1	NO	R	100
70393	01/12/04	GW11263ST	CHLOROFORM	REAL	TR1	1		UG/L	U	V1		1	NO	R	100
70393	01/12/04	GW11263ST	CHLOROMETHANE	REAL	TR1	1		UG/L	U	V1		1	NO	R	6.55
70393	01/12/04	GW11262ST	CHLOROMETHANE	REAL	TR1	1		UG/L	U	V1		1	NO	R	6.55
70393	01/12/04	GW11263ST	CHROMIUM	REAL	TR1	1.83		UG/L	B	UJ1		1	YES	R	100
70393	01/12/04	GW11262ST	CHROMIUM	REAL	TR1	1.59		UG/L	B	UJ1		1	NO	R	100
70393	01/12/04	GW11262ST	CHROMIUM	REAL	LD1	2.05		UG/L		1		1	NO	R	100
70393	01/12/04	GW11263ST	cis-1,2-DICHLOROETHENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	70
70393	01/12/04	GW11262ST	cis-1,2-DICHLOROETHENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	70
70393	01/12/04	GW11263ST	cis-1,3-DICHLOROPROPENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	1
70393	01/12/04	GW11262ST	cis-1,3-DICHLOROPROPENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	1
70393	01/12/04	GW11262ST	COBALT	REAL	LD1	0.091		UG/L	B	1		1	NO	R	2190
70393	01/12/04	GW11263ST	COBALT	REAL	TR1	0.165		UG/L	B	V1		1	YES	R	2190
70393	01/12/04	GW11262ST	COBALT	REAL	TR1	0.099		UG/L	B	V1		1	NO	R	2190
70393	01/12/04	GW11263ST	COPPER	REAL	TR1	2.05		UG/L	B	UJ1		1	YES	R	1300
70393	01/12/04	GW11262ST	COPPER	REAL	LD1	0.846		UG/L	B	1		1	NO	R	1300
70393	01/12/04	GW11262ST	COPPER	REAL	TR1	0.961		UG/L	B	UJ1		1	NO	R	1300
70393	01/12/04	GW11262ST	DIBROMOCHLOROMETHANE	REAL	TR1	1		UG/L	U	V1		1	NO	R	1.01
70393	01/12/04	GW11263ST	DIBROMOCHLOROMETHANE	REAL	TR1	1		UG/L	U	V1		1	NO	R	1.01
70393	01/12/04	GW11262ST	DIBROMOMETHANE	REAL	TR1	1		UG/L	U	V1		1	NO	R	
70393	01/12/04	GW11263ST	DIBROMOMETHANE	REAL	TR1	1		UG/L	U	V1		1	NO	R	
70393	01/12/04	GW11262ST	DICHLORODIFLUOROMETHANE	REAL	TR1	1		UG/L	U	V1		1	NO	R	
70393	01/12/04	GW11263ST	DICHLORODIFLUOROMETHANE	REAL	TR1	1		UG/L	U	V1		1	NO	R	
70393	01/12/04	GW11262ST	ETHYLBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	700
70393	01/12/04	GW11263ST	ETHYLBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	700
70393	01/12/04	GW11262ST	FLUORIDE	REAL	LD1	105		UG/L	B	1	55.3	1	NO	R	4000
70393	01/12/04	GW11263ST	FLUORIDE	REAL	TR1	582		UG/L		V1	55.3	1	NO	R	4000
70393	01/12/04	GW11262ST	FLUORIDE	REAL	TR1	132		UG/L	B	V1	55.3	1	NO	R	4000
70393	01/12/04	GW11263ST	HEXACHLOROBUTADIENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	10
70393	01/12/04	GW11262ST	HEXACHLOROBUTADIENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	10
70393	01/12/04	GW11262ST	IRON	REAL	LD1	78.5		UG/L	B	1		1	NO	R	
70393	01/12/04	GW11263ST	IRON	REAL	TR1	112		UG/L		V1		1	YES	R	

Location	Sample Date	Sample Number	Analyte	QC Code	Result Type	Result	Error 2 Sigma	Units	Result Qualifier	Validation	Detection Limit	Dilution	Filtered	Well Class	Tier1 (ug/L or pCi/L)
70393	01/12/04	GW11262ST	IRON	REAL	TR1	77.1		UG/L	B	V1		1	NO	R	
70393	01/12/04	GW11263ST	ISOPROPYLBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	
70393	01/12/04	GW11262ST	ISOPROPYLBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	
70393	01/12/04	GW11262ST	LEAD	REAL	LD1	0.184		UG/L	B	1		1	NO	R	15
70393	01/12/04	GW11263ST	LEAD	REAL	TR1	1.24		UG/L	B	J1		1	NO	R	15
70393	01/12/04	GW11263ST	LEAD	REAL	TR1	0.182		UG/L	B	UJ1		1	YES	R	15
70393	01/12/04	GW11262ST	LITHIUM	REAL	LD1	6.16		UG/L	B	1		1	NO	R	730
70393	01/12/04	GW11262ST	LITHIUM	REAL	TR1	6.22		UG/L	B	V1		1	NO	R	730
70393	01/12/04	GW11263ST	LITHIUM	REAL	TR1	14.9		UG/L	B	V1		1	YES	R	730
70393	01/12/04	GW11262ST	MAGNESIUM	REAL	LD1	3500		UG/L	B	1		1	NO	R	
70393	01/12/04	GW11263ST	MAGNESIUM	REAL	TR1	6820		UG/L		V1		1	YES	R	
70393	01/12/04	GW11262ST	MAGNESIUM	REAL	TR1	3990		UG/L	B	V1		1	NO	R	
70393	01/12/04	GW11263ST	MANGANESE	REAL	TR1	0.56		UG/L	BE	UJ1		1	YES	R	1720
70393	01/12/04	GW11262ST	MANGANESE	REAL	LD1	3.21		UG/L	B	1		1	NO	R	1720
70393	01/12/04	GW11262ST	MANGANESE	REAL	TR1	3.15		UG/L	BE	J1		1	NO	R	1720
70393	01/12/04	GW11262ST	MERCURY	REAL	TR1	0.033		UG/L	U	J1		1	NO	R	2
70393	01/12/04	GW11262ST	MERCURY	REAL	LD1	0.033		UG/L	U	1		1	NO	R	2
70393	01/12/04	GW11263ST	MERCURY	REAL	TR1	0.033		UG/L	U	J1		1	YES	R	2
70393	01/12/04	GW11263ST	METHYLENE CHLORIDE	REAL	TR1	1		UG/L	U	V1		1	NO	R	5
70393	01/12/04	GW11262ST	METHYLENE CHLORIDE	REAL	TR1	1		UG/L	U	V1		1	NO	R	5
70393	01/12/04	GW11262ST	MOLYBDENUM	REAL	TR1	0.227		UG/L	B	UJ1		1	NO	R	183
70393	01/12/04	GW11262ST	MOLYBDENUM	REAL	LD1	0.201		UG/L	B	1		1	NO	R	183
70393	01/12/04	GW11263ST	MOLYBDENUM	REAL	TR1	2.08		UG/L	B	V1		1	YES	R	183
70393	01/12/04	GW11263ST	NAPHTHALENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	1460
70393	01/12/04	GW11262ST	NAPHTHALENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	1460
70393	01/12/04	GW11263ST	n-BUTYLBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	
70393	01/12/04	GW11262ST	n-BUTYLBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	
70393	01/12/04	GW11262ST	NICKEL	REAL	LD1	1.88		UG/L	B	1		1	NO	R	140
70393	01/12/04	GW11262ST	NICKEL	REAL	TR1	1.86		UG/L	B	V1		1	NO	R	140
70393	01/12/04	GW11263ST	NICKEL	REAL	TR1	0.82		UG/L	B	UJ1		1	YES	R	140
70393	01/12/04	GW11263ST	NITRATE/NITRITE	REAL	TR1	2200		UG/L		V1	10	1	NO	R	10000
70393	01/12/04	GW11262ST	NITRATE/NITRITE	REAL	TR1	5800		UG/L		V1	50	5	NO	R	10000
70393	01/12/04	GW11263ST	n-PROPYLBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	
70393	01/12/04	GW11262ST	n-PROPYLBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	
70393	01/12/04	GW11262ST	p-CHLOROTOLUENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	
70393	01/12/04	GW11263ST	p-CHLOROTOLUENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	
70393	01/12/04	GW11263ST	POTASSIUM	REAL	TR1	1410		UG/L	B	V1		1	YES	R	
70393	01/12/04	GW11262ST	POTASSIUM	REAL	TR1	539		UG/L	B	V1		1	NO	R	
70393	01/12/04	GW11262ST	POTASSIUM	REAL	LD1	498		UG/L	B	1		1	NO	R	
70393	01/12/04	GW11262ST	PROPANE, 1,2-DIBROMO-3-CHLORO-	REAL	TR1	1		UG/L	U	V1		1	NO	R	1
70393	01/12/04	GW11263ST	PROPANE, 1,2-DIBROMO-3-CHLORO-	REAL	TR1	1		UG/L	U	V1		1	NO	R	1
70393	01/12/04	GW11262ST	sec-BUTYLBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	
70393	01/12/04	GW11263ST	sec-BUTYLBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	
70393	01/12/04	GW11263ST	SELENIUM	REAL	TR1	4.18		UG/L		V1		1	YES	R	50
70393	01/12/04	GW11262ST	SELENIUM	REAL	TR1	1.56		UG/L	U	V1		1	NO	R	50
70393	01/12/04	GW11262ST	SELENIUM	REAL	LD1	1.56		UG/L	U	1		1	NO	R	50
70393	01/12/04	GW11262ST	SILVER	REAL	LD1	0.024		UG/L	B	1		1	NO	R	183
70393	01/12/04	GW11263ST	SILVER	REAL	TR1	0.079		UG/L	B	V1		1	YES	R	183
70393	01/12/04	GW11262ST	SILVER	REAL	TR1	0.016		UG/L	B	UJ1		1	NO	R	183
70393	01/12/04	GW11263ST	SODIUM	REAL	TR1	17200		UG/L		V1		1	YES	R	
70393	01/12/04	GW11262ST	SODIUM	REAL	TR1	13100		UG/L		V1		1	NO	R	
70393	01/12/04	GW11262ST	SODIUM	REAL	LD1	13700		UG/L		1		1	NO	R	
70393	01/12/04	GW11262ST	STRONTIUM	REAL	LD1	119		UG/L	B	1		1	NO	R	21900
70393	01/12/04	GW11263ST	STRONTIUM	REAL	TR1	237		UG/L	E	J1		1	YES	R	21900
70393	01/12/04	GW11262ST	STRONTIUM	REAL	TR1	118		UG/L	BE	J1		1	NO	R	21900
70393	01/12/04	GW11262ST	STYRENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	100
70393	01/12/04	GW11263ST	STYRENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	100
70393	01/12/04	GW11262ST	SULFATE	REAL	LD1	28600		UG/L		1	193	1	NO	R	500000
70393	01/12/04	GW11262ST	SULFATE	REAL	TR1	28300		UG/L		V1	193	1	NO	R	500000
70393	01/12/04	GW11263ST	SULFATE	REAL	TR1	14700		UG/L		V1	193	1	NO	R	500000
70393	01/12/04	GW11263ST	tert-BUTYLBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	
70393	01/12/04	GW11262ST	tert-BUTYLBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	
70393	01/12/04	GW11263ST	TETRACHLOROETHENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	5

Location	Sample Date	Sample Number	Analyte	QC Code	Result Type	Result	Error 2 Sigma	Units	Result Qualifier	Validation	Detection Limit	Dilution	Filtered	Well Class	Tier1 (ug/L or pCi/L)
70393	01/12/04	GW11262ST	TETRACHLOROETHENE	REAL	TR1	4.3		UG/L		V1		1	NO	R	5
70393	01/12/04	GW11262ST	THALLIUM	REAL	TR1	0.444		UG/L	B	V1		1	NO	R	12
70393	01/12/04	GW11262ST	THALLIUM	REAL	LD1	0.116		UG/L	B	1		1	NO	R	12
70393	01/12/04	GW11263ST	THALLIUM	REAL	TR1	0.065		UG/L	B	UJ1		1	YES	R	12
70393	01/12/04	GW11262ST	TIN	REAL	LD1	0.189		UG/L	B	1		1	NO	R	21900
70393	01/12/04	GW11263ST	TIN	REAL	TR1	0.259		UG/L	B	UJ1		1	YES	R	21900
70393	01/12/04	GW11262ST	TIN	REAL	TR1	1.9		UG/L	B	V1		1	NO	R	21900
70393	01/12/04	GW11262ST	TOLUENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	1000
70393	01/12/04	GW11263ST	TOLUENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	1000
70393	01/12/04	GW11262ST	TOTAL XYLENES	REAL	TR1	3		UG/L	U	V1		1	NO	R	10000
70393	01/12/04	GW11263ST	TOTAL XYLENES	REAL	TR1	3		UG/L	U	V1		1	NO	R	10000
70393	01/12/04	GW11263ST	trans-1,2-DICHLOROETHENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	70
70393	01/12/04	GW11262ST	trans-1,2-DICHLOROETHENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	70
70393	01/12/04	GW11263ST	trans-1,3-DICHLOROPROPENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	1
70393	01/12/04	GW11262ST	trans-1,3-DICHLOROPROPENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	1
70393	01/12/04	GW11262ST	TRICHLOROETHENE	REAL	TR1	15.4		UG/L		V1		1	NO	R	5
70393	01/12/04	GW11263ST	TRICHLOROETHENE	REAL	TR1	2		UG/L		V1		1	NO	R	5
70393	01/12/04	GW11262ST	TRICHLOROFLUOROMETHANE	REAL	TR1	1		UG/L	U	V1		1	NO	R	
70393	01/12/04	GW11263ST	TRICHLOROFLUOROMETHANE	REAL	TR1	1		UG/L	U	V1		1	NO	R	
70393	01/12/04	GW11263ST	URANIUM, TOTAL	REAL	LD1	0.035		UG/L	B	1		1	NO	R	
70393	01/12/04	GW11263ST	URANIUM, TOTAL	REAL	TR1	2.2		UG/L		V1		1	YES	R	
70393	01/12/04	GW11262ST	URANIUM, TOTAL	REAL	TR1	0.041		UG/L	B	V1		1	NO	R	
70393	01/12/04	GW11262ST	URANIUM-233,-234	REAL	LD1	0.391	.338	PCI/L	U				NO	R	1.06
70393	01/12/04	GW11263ST	URANIUM-233,-234	REAL	TR1	1.93	.692	PCI/L		V			YES	R	1.06
70393	01/12/04	GW11262ST	URANIUM-233,-234	REAL	TR1	0.096	.241	PCI/L	U	V			NO	R	1.06
70393	01/12/04	GW11262ST	URANIUM-235	REAL	TR1	0.0816	.206	PCI/L	U	V			NO	R	1.01
70393	01/12/04	GW11262ST	URANIUM-235	REAL	LD1	0.0624	.123	PCI/L	U				NO	R	1.01
70393	01/12/04	GW11263ST	URANIUM-235	REAL	TR1	0.0768	.296	PCI/L	U	V			YES	R	1.01
70393	01/12/04	GW11263ST	URANIUM-238	REAL	TR1	0.225	.324	PCI/L	U	V			YES	R	0.768
70393	01/12/04	GW11262ST	URANIUM-238	REAL	TR1	-0.113	.164	PCI/L	U	V			NO	R	0.768
70393	01/12/04	GW11262ST	URANIUM-238	REAL	LD1	0.222	.301	PCI/L	U				NO	R	0.768
70393	01/12/04	GW11263ST	VANADIUM	REAL	TR1	0.904		UG/L	U	J1		1	YES	R	256
70393	01/12/04	GW11262ST	VANADIUM	REAL	LD1	0.904		UG/L	U	1		1	NO	R	256
70393	01/12/04	GW11262ST	VANADIUM	REAL	TR1	0.904		UG/L	U	J1		1	NO	R	256
70393	01/12/04	GW11262ST	VINYL CHLORIDE	REAL	TR1	1		UG/L	U	V1		1	NO	R	2
70393	01/12/04	GW11263ST	VINYL CHLORIDE	REAL	TR1	1		UG/L	U	V1		1	NO	R	2
70393	01/12/04	GW11263ST	ZINC	REAL	TR1	2.64		UG/L	B	UJ1		1	YES	R	11000
70393	01/12/04	GW11262ST	ZINC	REAL	LD1	1.96		UG/L	B	1		1	NO	R	11000
70393	01/12/04	GW11262ST	ZINC	REAL	TR1	2.95		UG/L	B	UJ1		1	NO	R	11000
95503	02/09/04	GW11277ST	1,1,1,2-TETRACHLOROETHANE	REAL	TR1	1		UG/L	U	V1		1	NO		
95503	02/09/04	GW11277ST	1,1,1-TRICHLOROETHANE	REAL	TR1	1		UG/L	U	V1		1	NO		200
95503	02/09/04	GW11277ST	1,1,2,2-TETRACHLOROETHANE	REAL	TR1	1		UG/L	U	V1		1	NO		1
95503	02/09/04	GW11277ST	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	REAL	TR1	1		UG/L	U	V1		1	NO		
95503	02/09/04	GW11277ST	1,1,2-TRICHLOROETHANE	REAL	TR1	1		UG/L	U	V1		1	NO		5
95503	02/09/04	GW11277ST	1,1-DICHLOROETHANE	REAL	TR1	1		UG/L	U	V1		1	NO		3650
95503	02/09/04	GW11277ST	1,1-DICHLOROETHENE	REAL	TR1	1		UG/L	U	V1		1	NO		7
95503	02/09/04	GW11277ST	1,1-DICHLOROPROPENE	REAL	TR1	1		UG/L	U	V1		1	NO		
95503	02/09/04	GW11277ST	1,2,3-TRICHLOROBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO		
95503	02/09/04	GW11277ST	1,2,3-TRICHLOROPROPANE	REAL	TR1	1		UG/L	U	V1		1	NO		
95503	02/09/04	GW11277ST	1,2,4-TRICHLOROBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO		70
95503	02/09/04	GW11277ST	1,2-DIBROMOETHANE	REAL	TR1	1		UG/L	U	V1		1	NO		
95503	02/09/04	GW11277ST	1,2-DICHLOROBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO		600
95503	02/09/04	GW11277ST	1,2-DICHLOROETHANE	REAL	TR1	1		UG/L	U	V1		1	NO		5
95503	02/09/04	GW11277ST	1,2-DICHLOROPROPANE	REAL	TR1	1		UG/L	U	V1		1	NO		5
95503	02/09/04	GW11277ST	1,3-DICHLOROBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO		600
95503	02/09/04	GW11277ST	1,3-DICHLOROPROPANE	REAL	TR1	1		UG/L	U	V1		1	NO		
95503	02/09/04	GW11277ST	1,4-DICHLOROBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO		75
95503	02/09/04	GW11277ST	2,2-DICHLOROPROPANE	REAL	TR1	1		UG/L	U	V1		1	NO		
95503	02/09/04	GW11277ST	2-BUTANONE	REAL	TR1	5		UG/L	U	V1		1	NO		21900
95503	02/09/04	GW11277ST	2-CHLOROTOLUENE	REAL	TR1	1		UG/L	U	V1		1	NO		
95503	02/09/04	GW11277ST	2-HEXANONE	REAL	TR1	5		UG/L	U	V1		1	NO		
95503	02/09/04	GW11277ST	4-ISOPROPYLTOLUENE	REAL	TR1	1		UG/L	U	V1		1	NO		
95503	02/09/04	GW11277ST	4-METHYL-2-PENTANONE	REAL	TR1	5		UG/L	U	V1		1	NO		2920

Location	Sample Date	Sample Number	Analyte	QC Code	Result Type	Result	Error 2 Sigma	Units	Result Qualifier	Validation	Detection Limit	Dilution	Filtered	Well Class	Tier/ (ug/L or pCi/L)
95503	02/09/04	GW11277ST	ACETONE	REAL	TR1	22		UG/L		V1		1	NO		3650
95503	02/09/04	GW11277ST	BENZENE	REAL	TR1	1		UG/L	U	V1		1	NO		5
95503	02/09/04	GW11277ST	BENZENE, 1,2,4-TRIMETHYL	REAL	TR1	1		UG/L	U	V1		1	NO		
95503	02/09/04	GW11277ST	BENZENE, 1,3,5-TRIMETHYL-	REAL	TR1	1		UG/L	U	V1		1	NO		
95503	02/09/04	GW11277ST	BROMOBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO		
95503	02/09/04	GW11277ST	BROMOCHLOROMETHANE	REAL	TR1	1		UG/L	U	V1		1	NO		
95503	02/09/04	GW11277ST	BROMODICHLOROMETHANE	REAL	TR1	1		UG/L	U	V1		1	NO		100
95503	02/09/04	GW11277ST	BROMOFORM	REAL	TR1	1		UG/L	U	V1		1	NO		100
95503	02/09/04	GW11277ST	BROMOMETHANE	REAL	TR1	1		UG/L	U	V1		1	NO		51.1
95503	02/09/04	GW11277ST	CARBON DISULFIDE	REAL	TR1	1		UG/L	U	V1		1	NO		3650
95503	02/09/04	GW11277ST	CARBON TETRACHLORIDE	REAL	TR1	0.76		UG/L	J	V1		1	NO		5
95503	02/09/04	GW11277ST	CHLOROETHANE	REAL	TR1	1		UG/L	U	V1		1	NO		100
95503	02/09/04	GW11277ST	CHLOROETHANE	REAL	TR1	1		UG/L	U	V1		1	NO		29.4
95503	02/09/04	GW11277ST	CHLOROFORM	REAL	TR1	1		UG/L	U	V1		1	NO		100
95503	02/09/04	GW11277ST	CHLOROMETHANE	REAL	TR1	1		UG/L	U	V1		1	NO		6.55
95503	02/09/04	GW11277ST	cis-1,2-DICHLOROETHENE	REAL	TR1	1		UG/L	U	V1		1	NO		70
95503	02/09/04	GW11277ST	cis-1,3-DICHLOROPROPENE	REAL	TR1	1		UG/L	U	V1		1	NO		1
95503	02/09/04	GW11277ST	DIBROMOCHLOROMETHANE	REAL	TR1	1		UG/L	U	V1		1	NO		1.01
95503	02/09/04	GW11277ST	DIBROMOMETHANE	REAL	TR1	1		UG/L	U	V1		1	NO		
95503	02/09/04	GW11277ST	DICHLORODIFLUOROMETHANE	REAL	TR1	1		UG/L	U	V1		1	NO		
95503	02/09/04	GW11277ST	ETHYLBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO		700
95503	02/09/04	GW11277ST	HEXACHLOROBUTADIENE	REAL	TR1	1		UG/L	U	V1		1	NO		10
95503	02/09/04	GW11277ST	ISOPROPYLBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO		
95503	02/09/04	GW11277ST	METHYLENE CHLORIDE	REAL	TR1	1		UG/L	U	V1		1	NO		5
95503	02/09/04	GW11277ST	NAPHTHALENE	REAL	TR1	1		UG/L	U	V1		1	NO		1460
95503	02/09/04	GW11277ST	n-BUTYLBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO		
95503	02/09/04	GW11277ST	n-PROPYLBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO		
95503	02/09/04	GW11277ST	p-CHLOROTOLUENE	REAL	TR1	1		UG/L	U	V1		1	NO		
95503	02/09/04	GW11277ST	PROPANE, 1,2-DIBROMO-3-CHLORO-	REAL	TR1	1		UG/L	U	V1		1	NO		1
95503	02/09/04	GW11277ST	sec-BUTYLBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO		
95503	02/09/04	GW11277ST	STYRENE	REAL	TR1	1		UG/L	U	V1		1	NO		100
95503	02/09/04	GW11277ST	tert-BUTYLBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO		
95503	02/09/04	GW11277ST	TETRACHLOROETHENE	REAL	TR1	1		UG/L	U	V1		1	NO		5
95503	02/09/04	GW11277ST	TOLUENE	REAL	TR1	1		UG/L	U	V1		1	NO		1000
95503	02/09/04	GW11277ST	TOTAL XYLENES	REAL	TR1	1		UG/L	U	V1		1	NO		10000
95503	02/09/04	GW11277ST	trans-1,2-DICHLOROETHENE	REAL	TR1	0.5		UG/L	U	V1		1	NO		70
95503	02/09/04	GW11277ST	trans-1,3-DICHLOROPROPENE	REAL	TR1	1		UG/L	U	V1		1	NO		1
95503	02/09/04	GW11277ST	TRICHLOROETHENE	REAL	TR1	1		UG/L	U	V1		1	NO		5
95503	02/09/04	GW11277ST	TRICHLOROFLUOROMETHANE	REAL	TR1	1		UG/L	U	V1		1	NO		
95503	02/09/04	GW11277ST	VINYL CHLORIDE	REAL	TR1	1		UG/L	U	V1		1	NO		2
99603	02/04/04	GW11276ST	1,1,1,2-TETRACHLOROETHANE	REAL	TR1	1		UG/L	U	V1		1	NO		
99603	03/30/04	GW11462ST	1,1,1,2-TETRACHLOROETHANE	REAL	TR1	1		UG/L	U	V1		1	NO		
99603	02/04/04	GW11276ST	1,1,1-TRICHLOROETHANE	REAL	TR1	1		UG/L	U	V1		1	NO		200
99603	03/30/04	GW11462ST	1,1,1-TRICHLOROETHANE	REAL	TR1	1		UG/L	U	V1		1	NO		200
99603	02/04/04	GW11276ST	1,1,2,2-TETRACHLOROETHANE	REAL	TR1	1		UG/L	U	V1		1	NO		1
99603	03/30/04	GW11462ST	1,1,2,2-TETRACHLOROETHANE	REAL	TR1	1		UG/L	U	V1		1	NO		1
99603	02/04/04	GW11276ST	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	REAL	TR1	1		UG/L	U	V1		1	NO		
99603	03/30/04	GW11462ST	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	REAL	TR1	1		UG/L	U	V1		1	NO		
99603	02/04/04	GW11276ST	1,1,2-TRICHLOROETHANE	REAL	TR1	1		UG/L	U	V1		1	NO		5
99603	03/30/04	GW11462ST	1,1,2-TRICHLOROETHANE	REAL	TR1	1		UG/L	U	V1		1	NO		5
99603	02/04/04	GW11276ST	1,1-DICHLOROETHANE	REAL	TR1	1		UG/L	U	V1		1	NO		3650
99603	03/30/04	GW11462ST	1,1-DICHLOROETHANE	REAL	TR1	1		UG/L	U	V1		1	NO		3650
99603	02/04/04	GW11276ST	1,1-DICHLOROETHENE	REAL	TR1	1		UG/L	U	V1		1	NO		7
99603	03/30/04	GW11462ST	1,1-DICHLOROETHENE	REAL	TR1	1		UG/L	U	V1		1	NO		7
99603	02/04/04	GW11276ST	1,1-DICHLOROPROPENE	REAL	TR1	1		UG/L	U	V1		1	NO		
99603	03/30/04	GW11462ST	1,1-DICHLOROPROPENE	REAL	TR1	1		UG/L	U	V1		1	NO		
99603	02/04/04	GW11276ST	1,2,3-TRICHLOROBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO		
99603	03/30/04	GW11462ST	1,2,3-TRICHLOROBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO		
99603	02/04/04	GW11276ST	1,2,3-TRICHLOROPROPANE	REAL	TR1	1		UG/L	U	V1		1	NO		
99603	03/30/04	GW11462ST	1,2,3-TRICHLOROPROPANE	REAL	TR1	1		UG/L	U	V1		1	NO		
99603	02/04/04	GW11276ST	1,2,4-TRICHLOROBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO		70
99603	03/30/04	GW11462ST	1,2,4-TRICHLOROBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO		70
99603	02/04/04	GW11276ST	1,2-DIBROMOETHANE	REAL	TR1	1		UG/L	U	V1		1	NO		

Location	Sample Date	Sample Number	Analyte	QC Code	Result Type	Result	Error 2 Sigma	Units	Result Qualifier	Validation	Detection Limit	Dilution	Filtered	Well Class	Tier/I (ug/L or pCi/L)
99603	03/30/04	GW11462ST	1,2-DIBROMOETHANE	REAL	TR1	1		UG/L	U	V1		1	NO		
99603	02/04/04	GW11276ST	1,2-DICHLOROBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO		600
99603	03/30/04	GW11462ST	1,2-DICHLOROBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO		600
99603	02/04/04	GW11276ST	1,2-DICHLOROETHANE	REAL	TR1	1		UG/L	U	V1		1	NO		5
99603	03/30/04	GW11462ST	1,2-DICHLOROETHANE	REAL	TR1	1		UG/L	U	V1		1	NO		5
99603	02/04/04	GW11276ST	1,2-DICHLOROPROPANE	REAL	TR1	1		UG/L	U	V1		1	NO		5
99603	03/30/04	GW11462ST	1,2-DICHLOROPROPANE	REAL	TR1	1		UG/L	U	V1		1	NO		5
99603	02/04/04	GW11276ST	1,3-DICHLOROBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO		600
99603	03/30/04	GW11462ST	1,3-DICHLOROBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO		600
99603	02/04/04	GW11276ST	1,3-DICHLOROPROPANE	REAL	TR1	1		UG/L	U	V1		1	NO		
99603	03/30/04	GW11462ST	1,3-DICHLOROPROPANE	REAL	TR1	1		UG/L	U	V1		1	NO		
99603	02/04/04	GW11276ST	1,4-DICHLOROBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO		75
99603	03/30/04	GW11462ST	1,4-DICHLOROBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO		75
99603	02/04/04	GW11276ST	2,2-DICHLOROPROPANE	REAL	TR1	1		UG/L	U	V1		1	NO		
99603	03/30/04	GW11462ST	2,2-DICHLOROPROPANE	REAL	TR1	1		UG/L	U	V1		1	NO		
99603	02/04/04	GW11276ST	2-BUTANONE	REAL	TR1	5		UG/L	U	V1		1	NO		21900
99603	03/30/04	GW11462ST	2-BUTANONE	REAL	TR1	5		UG/L	U	V1		1	NO		21900
99603	02/04/04	GW11276ST	2-CHLOROTOLUENE	REAL	TR1	1		UG/L	U	V1		1	NO		
99603	03/30/04	GW11462ST	2-CHLOROTOLUENE	REAL	TR1	1		UG/L	U	V1		1	NO		
99603	02/04/04	GW11276ST	2-HEXANONE	REAL	TR1	5		UG/L	U	V1		1	NO		
99603	03/30/04	GW11462ST	2-HEXANONE	REAL	TR1	5		UG/L	U	V1		1	NO		
99603	02/04/04	GW11276ST	4-ISOPROPYLTOLUENE	REAL	TR1	1		UG/L	U	V1		1	NO		
99603	03/30/04	GW11462ST	4-ISOPROPYLTOLUENE	REAL	TR1	1		UG/L	U	V1		1	NO		
99603	02/04/04	GW11276ST	4-METHYL-2-PENTANONE	REAL	TR1	5		UG/L	U	V1		1	NO		2920
99603	03/30/04	GW11462ST	4-METHYL-2-PENTANONE	REAL	TR1	5		UG/L	U	V1		1	NO		2920
99603	02/04/04	GW11276ST	ACETONE	REAL	TR1	10		UG/L	U	V1		1	NO		3650
99603	03/30/04	GW11462ST	ACETONE	REAL	TR1	10		UG/L	U	V1		1	NO		3650
99603	02/04/04	GW11276ST	BENZENE	REAL	TR1	1		UG/L	U	V1		1	NO		5
99603	03/30/04	GW11462ST	BENZENE	REAL	TR1	1		UG/L	U	V1		1	NO		5
99603	02/04/04	GW11276ST	BENZENE, 1,2,4-TRIMETHYL	REAL	TR1	1		UG/L	U	V1		1	NO		
99603	03/30/04	GW11462ST	BENZENE, 1,2,4-TRIMETHYL	REAL	TR1	1		UG/L	U	V1		1	NO		
99603	02/04/04	GW11276ST	BENZENE, 1,3,5-TRIMETHYL	REAL	TR1	1		UG/L	U	V1		1	NO		
99603	03/30/04	GW11462ST	BENZENE, 1,3,5-TRIMETHYL	REAL	TR1	1		UG/L	U	V1		1	NO		
99603	02/04/04	GW11276ST	BROMOBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO		
99603	03/30/04	GW11462ST	BROMOBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO		
99603	02/04/04	GW11276ST	BROMOCHLOROMETHANE	REAL	TR1	1		UG/L	U	V1		1	NO		
99603	03/30/04	GW11462ST	BROMOCHLOROMETHANE	REAL	TR1	1		UG/L	U	V1		1	NO		
99603	02/04/04	GW11276ST	BROMODICHLOROMETHANE	REAL	TR1	1		UG/L	U	V1		1	NO		100
99603	03/30/04	GW11462ST	BROMODICHLOROMETHANE	REAL	TR1	1		UG/L	U	V1		1	NO		100
99603	02/04/04	GW11276ST	BROMOFORM	REAL	TR1	1		UG/L	U	V1		1	NO		100
99603	03/30/04	GW11462ST	BROMOFORM	REAL	TR1	1		UG/L	U	V1		1	NO		100
99603	02/04/04	GW11276ST	BROMOMETHANE	REAL	TR1	1		UG/L	U	V1		1	NO		51.1
99603	03/30/04	GW11462ST	BROMOMETHANE	REAL	TR1	1		UG/L	U	V1		1	NO		51.1
99603	02/04/04	GW11276ST	CARBON DISULFIDE	REAL	TR1	1		UG/L	U	V1		1	NO		3650
99603	03/30/04	GW11462ST	CARBON DISULFIDE	REAL	TR1	1		UG/L	U	V1		1	NO		3650
99603	02/04/04	GW11276ST	CARBON TETRACHLORIDE	REAL	TR1	1		UG/L	U	V1		1	NO		5
99603	03/30/04	GW11462ST	CARBON TETRACHLORIDE	REAL	TR1	1		UG/L	U	V1		1	NO		5
99603	02/04/04	GW11276ST	CHLOROBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO		100
99603	03/30/04	GW11462ST	CHLOROBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO		100
99603	02/04/04	GW11276ST	CHLOROETHANE	REAL	TR1	1		UG/L	U	V1		1	NO		29.4
99603	03/30/04	GW11462ST	CHLOROETHANE	REAL	TR1	1		UG/L	U	V1		1	NO		29.4
99603	02/04/04	GW11276ST	CHLOROFORM	REAL	TR1	1		UG/L	U	V1		1	NO		100
99603	03/30/04	GW11462ST	CHLOROFORM	REAL	TR1	1		UG/L	U	V1		1	NO		100
99603	02/04/04	GW11276ST	CHLOROMETHANE	REAL	TR1	1		UG/L	U	V1		1	NO		6.55
99603	03/30/04	GW11462ST	CHLOROMETHANE	REAL	TR1	1		UG/L	U	V1		1	NO		6.55
99603	02/04/04	GW11276ST	cis-1,2-DICHLOROETHENE	REAL	TR1	1		UG/L	U	V1		1	NO		70
99603	03/30/04	GW11462ST	cis-1,2-DICHLOROETHENE	REAL	TR1	1		UG/L	U	V1		1	NO		70
99603	02/04/04	GW11276ST	cis-1,3-DICHLOROPROPENE	REAL	TR1	1		UG/L	U	V1		1	NO		1
99603	03/30/04	GW11462ST	cis-1,3-DICHLOROPROPENE	REAL	TR1	1		UG/L	U	V1		1	NO		1
99603	02/04/04	GW11276ST	DIBROMOCHLOROMETHANE	REAL	TR1	1		UG/L	U	V1		1	NO		1.01
99603	03/30/04	GW11462ST	DIBROMOCHLOROMETHANE	REAL	TR1	1		UG/L	U	V1		1	NO		1.01
99603	02/04/04	GW11276ST	DIBROMOMETHANE	REAL	TR1	1		UG/L	U	V1		1	NO		
99603	03/30/04	GW11462ST	DIBROMOMETHANE	REAL	TR1	1		UG/L	U	V1		1	NO		

Location	Sample Date	Sample Number	Analyte	QC Code	Result Type	Result	Error 2 Sigma	Units	Result Qualifier	Validation	Detection Limit	Dilution	Filtered	Well Class	Tier1 (ug/L or pCi/L)
99603	02/04/04	GW11276ST	DICHLORODIFLUOROMETHANE	REAL	TR1	1		UG/L	U	V1		1	NO		
99603	03/30/04	GW11462ST	DICHLORODIFLUOROMETHANE	REAL	TR1	1		UG/L	U	V1		1	NO		
99603	02/04/04	GW11276ST	ETHYLBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO		700
99603	03/30/04	GW11462ST	ETHYLBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO		700
99603	02/04/04	GW11276ST	HEXACHLOROBUTADIENE	REAL	TR1	1		UG/L	U	V1		1	NO		10
99603	03/30/04	GW11462ST	HEXACHLOROBUTADIENE	REAL	TR1	1		UG/L	U	V1		1	NO		10
99603	02/04/04	GW11276ST	ISOPROPYLBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO		
99603	03/30/04	GW11462ST	ISOPROPYLBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO		
99603	02/04/04	GW11276ST	METHYLENE CHLORIDE	REAL	TR1	1		UG/L	U	V1		1	NO		5
99603	03/30/04	GW11462ST	METHYLENE CHLORIDE	REAL	TR1	1		UG/L	U	V1		1	NO		5
99603	02/04/04	GW11276ST	NAPHTHALENE	REAL	TR1	1		UG/L	U	V1		1	NO		1460
99603	03/30/04	GW11462ST	NAPHTHALENE	REAL	TR1	1		UG/L	U	V1		1	NO		1460
99603	02/04/04	GW11276ST	n-BUTYLBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO		
99603	03/30/04	GW11462ST	n-BUTYLBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO		
99603	02/04/04	GW11276ST	n-PROPYLBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO		
99603	03/30/04	GW11462ST	n-PROPYLBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO		
99603	02/04/04	GW11276ST	p-CHLOROTOLUENE	REAL	TR1	1		UG/L	U	V1		1	NO		
99603	03/30/04	GW11462ST	p-CHLOROTOLUENE	REAL	TR1	1		UG/L	U	V1		1	NO		
99603	02/04/04	GW11276ST	PROPANE, 1,2-DIBROMO-3-CHLORO-	REAL	TR1	1		UG/L	U	V1		1	NO		1
99603	03/30/04	GW11462ST	PROPANE, 1,2-DIBROMO-3-CHLORO-	REAL	TR1	1		UG/L	U	V1		1	NO		1
99603	02/04/04	GW11276ST	sec-BUTYLBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO		
99603	03/30/04	GW11462ST	sec-BUTYLBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO		
99603	02/04/04	GW11276ST	STYRENE	REAL	TR1	1		UG/L	U	V1		1	NO		100
99603	03/30/04	GW11462ST	STYRENE	REAL	TR1	1		UG/L	U	V1		1	NO		100
99603	02/04/04	GW11276ST	tert-BUTYLBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO		
99603	03/30/04	GW11462ST	tert-BUTYLBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO		
99603	02/04/04	GW11276ST	TETRACHLOROETHENE	REAL	TR1	1		UG/L	U	V1		1	NO		5
99603	03/30/04	GW11462ST	TETRACHLOROETHENE	REAL	TR1	1		UG/L	U	V1		1	NO		5
99603	02/04/04	GW11276ST	TOLUENE	REAL	TR1	1		UG/L	U	V1		1	NO		1000
99603	03/30/04	GW11462ST	TOLUENE	REAL	TR1	1		UG/L	U	V1		1	NO		1000
99603	02/04/04	GW11276ST	TOTAL XYLENES	REAL	TR1	1		UG/L	U	V1		1	NO		10000
99603	03/30/04	GW11462ST	TOTAL XYLENES	REAL	TR1	1		UG/L	U	V1		1	NO		10000
99603	02/04/04	GW11276ST	trans-1,2-DICHLOROETHENE	REAL	TR1	0.5		UG/L	U	V1		1	NO		70
99603	03/30/04	GW11462ST	trans-1,2-DICHLOROETHENE	REAL	TR1	0.5		UG/L	U	V1		1	NO		70
99603	02/04/04	GW11276ST	trans-1,3-DICHLOROPROPENE	REAL	TR1	1		UG/L	U	V1		1	NO		1
99603	03/30/04	GW11462ST	trans-1,3-DICHLOROPROPENE	REAL	TR1	1		UG/L	U	V1		1	NO		1
99603	02/04/04	GW11276ST	TRICHLOROETHENE	REAL	TR1	1		UG/L	U	V1		1	NO		5
99603	03/30/04	GW11462ST	TRICHLOROETHENE	REAL	TR1	1		UG/L	U	V1		1	NO		5
99603	02/04/04	GW11276ST	TRICHLOROFLUOROMETHANE	REAL	TR1	1		UG/L	U	V1		1	NO		
99603	03/30/04	GW11462ST	TRICHLOROFLUOROMETHANE	REAL	TR1	1		UG/L	U	V1		1	NO		
99603	02/04/04	GW11276ST	VINYL CHLORIDE	REAL	TR1	1		UG/L	U	V1		1	NO		2
99603	03/30/04	GW11462ST	VINYL CHLORIDE	REAL	TR1	1		UG/L	U	V1		1	NO		2
B206989	01/07/04	GW11264ST	1,1,1,2-TETRACHLOROETHANE	REAL	TR1	1		UG/L	U	V1		1	NO	R	
B206989	01/07/04	GW11264ST	1,1,1-TRICHLOROETHANE	REAL	TR1	1		UG/L	U	V1		1	NO	R	200
B206989	01/07/04	GW11264ST	1,1,2,2-TETRACHLOROETHANE	REAL	TR1	1		UG/L	U	V1		1	NO	R	1
B206989	01/07/04	GW11264ST	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	REAL	TR1	5		UG/L	U	V1		1	NO	R	
B206989	01/07/04	GW11264ST	1,1,2-TRICHLOROETHANE	REAL	TR1	1		UG/L	U	V1		1	NO	R	5
B206989	01/07/04	GW11264ST	1,1-DICHLOROETHANE	REAL	TR1	1		UG/L	U	V1		1	NO	R	3650
B206989	01/07/04	GW11264ST	1,1-DICHLOROETHENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	7
B206989	01/07/04	GW11264ST	1,1-DICHLOROPROPENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	
B206989	01/07/04	GW11264ST	1,2,3-TRICHLOROBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	
B206989	01/07/04	GW11264ST	1,2,3-TRICHLOROPROPANE	REAL	TR1	1		UG/L	U	V1		1	NO	R	
B206989	01/07/04	GW11264ST	1,2,4-TRICHLOROBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	70
B206989	01/07/04	GW11264ST	1,2-DIBROMOETHANE	REAL	TR1	1		UG/L	U	V1		1	NO	R	
B206989	01/07/04	GW11264ST	1,2-DICHLOROBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	600
B206989	01/07/04	GW11264ST	1,2-DICHLOROETHANE	REAL	TR1	1		UG/L	U	V1		1	NO	R	5
B206989	01/07/04	GW11264ST	1,2-DICHLOROPROPANE	REAL	TR1	1		UG/L	U	V1		1	NO	R	5
B206989	01/07/04	GW11264ST	1,3-DICHLOROBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	600
B206989	01/07/04	GW11264ST	1,3-DICHLOROPROPANE	REAL	TR1	1		UG/L	U	V1		1	NO	R	
B206989	01/07/04	GW11264ST	1,4-DICHLOROBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	75
B206989	01/07/04	GW11264ST	2,2-DICHLOROPROPANE	REAL	TR1	1		UG/L	U	V1		1	NO	R	
B206989	01/07/04	GW11264ST	2-BUTANONE	REAL	TR1	10		UG/L	U	V1		1	NO	R	21900
B206989	01/07/04	GW11264ST	2-CHLOROTOLUENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	

Location	Sample Date	Sample Number	Analyte	QC Code	Result Type	Result	Error 2 Sigma	Units	Result Qualifier	Validation	Detection Limit	Dilution	Filtered	Well Class	Tier/ (ug/L or pCi/L)
B206989	01/07/04	GW11264ST	2-HEXANONE	REAL	TR1	10		UG/L	U	V1		1	NO	R	
B206989	01/07/04	GW11264ST	4-ISOPROPYLTOLUENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	
B206989	01/07/04	GW11264ST	4-METHYL-2-PENTANONE	REAL	TR1	10		UG/L	U	V1		1	NO	R	2920
B206989	01/07/04	GW11264ST	ACETONE	REAL	TR1	10		UG/L	U	V1		1	NO	R	3650
B206989	01/07/04	GW11264ST	ALUMINUM	REAL	TR1	21.1		UG/L	B	UJ1		5	YES	R	36500
B206989	01/07/04	GW11264ST	ANTIMONY	REAL	LD1	0.858		UG/L	B	1		1	YES	R	10
B206989	01/07/04	GW11264ST	ANTIMONY	REAL	TR1	0.852		UG/L	B	UJ1		1	YES	R	10
B206989	01/07/04	GW11264ST	ARSENIC	REAL	TR1	9.97		UG/L		UJ1		1	YES	R	50
B206989	01/07/04	GW11264ST	BARIUM	REAL	TR1	17.7		UG/L	B	V1		1	YES	R	2000
B206989	01/07/04	GW11264ST	BARIUM	REAL	LD1	17.8		UG/L	B	1		1	YES	R	2000
B206989	01/07/04	GW11264ST	BENZENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	5
B206989	01/07/04	GW11264ST	BENZENE, 1,2,4-TRIMETHYL	REAL	TR1	1		UG/L	U	V1		1	NO	R	
B206989	01/07/04	GW11264ST	BENZENE, 1,3,5-TRIMETHYL-	REAL	TR1	1		UG/L	U	V1		1	NO	R	
B206989	01/07/04	GW11264ST	BERYLLIUM	REAL	TR1	0.122		UG/L	B	V1		1	YES	R	5
B206989	01/07/04	GW11264ST	BROMOBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	
B206989	01/07/04	GW11264ST	BROMOCHLOROMETHANE	REAL	TR1	1		UG/L	U	V1		1	NO	R	
B206989	01/07/04	GW11264ST	BROMODICHLOROMETHANE	REAL	TR1	1		UG/L	U	V1		1	NO	R	100
B206989	01/07/04	GW11264ST	BROMOFORM	REAL	TR1	1		UG/L	U	V1		1	NO	R	100
B206989	01/07/04	GW11264ST	BROMOMETHANE	REAL	TR1	1		UG/L	U	V1		1	NO	R	51.1
B206989	01/07/04	GW11264ST	CADMIUM	REAL	TR1	0.441		UG/L	B	V1		1	YES	R	5
B206989	01/07/04	GW11264ST	CADMIUM	REAL	LD1	0.416		UG/L	B	1		1	YES	R	5
B206989	01/07/04	GW11264ST	CALCIUM	REAL	TR1	569000		UG/L		V1		5	YES	R	
B206989	01/07/04	GW11264ST	CARBON DISULFIDE	REAL	TR1	5		UG/L	U	V1		1	NO	R	3650
B206989	01/07/04	GW11264ST	CARBON TETRACHLORIDE	REAL	TR1	1		UG/L	U	V1		1	NO	R	5
B206989	01/07/04	GW11264ST	CHLOROBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	100
B206989	01/07/04	GW11264ST	CHLOROETHANE	REAL	TR1	1		UG/L	U	V1		1	NO	R	29.4
B206989	01/07/04	GW11264ST	CHLOROFORM	REAL	TR1	1		UG/L	U	V1		1	NO	R	100
B206989	01/07/04	GW11264ST	CHLOROMETHANE	REAL	TR1	1		UG/L	U	V1		1	NO	R	6.55
B206989	01/07/04	GW11264ST	CHROMIUM	REAL	TR1	1.44		UG/L	B	UJ1		1	YES	R	100
B206989	01/07/04	GW11264ST	cis-1,2-DICHLOROETHENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	70
B206989	01/07/04	GW11264ST	cis-1,3-DICHLOROPROPENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	1
B206989	01/07/04	GW11264ST	COBALT	REAL	TR1	2.48		UG/L	B	V1		1	YES	R	2190
B206989	01/07/04	GW11264ST	COPPER	REAL	TR1	13.9		UG/L		V1		1	YES	R	1300
B206989	01/07/04	GW11264ST	DIBROMOCHLOROMETHANE	REAL	TR1	1		UG/L	U	V1		1	NO	R	1.01
B206989	01/07/04	GW11264ST	DIBROMOMETHANE	REAL	TR1	1		UG/L	U	V1		1	NO	R	
B206989	01/07/04	GW11264ST	DICHLORODIFLUOROMETHANE	REAL	TR1	1		UG/L	U	UJ1		1	NO	R	
B206989	01/07/04	GW11264ST	ETHYLBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	700
B206989	01/15/04	GW11264ST	FLUORIDE	REAL	TR1	112		UG/L	B	V1	55.3	1	NO	R	4000
B206989	01/07/04	GW11264ST	HEXACHLOROBUTADIENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	10
B206989	01/07/04	GW11264ST	IRON	REAL	TR1	1790		UG/L		V1		1	YES	R	
B206989	01/07/04	GW11264ST	ISOPROPYLBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	
B206989	01/07/04	GW11264ST	LEAD	REAL	TR1	0.22		UG/L	B	V1		1	YES	R	15
B206989	01/07/04	GW11264ST	LEAD	REAL	LD1	0.11		UG/L	B	1		1	YES	R	15
B206989	01/07/04	GW11264ST	LITHIUM	REAL	LD1	1220		UG/L		1		1	YES	R	730
B206989	01/07/04	GW11264ST	LITHIUM	REAL	TR1	1230		UG/L		V1		1	YES	R	730
B206989	01/07/04	GW11264ST	MAGNESIUM	REAL	TR1	188000		UG/L	E	J1		5	YES	R	
B206989	01/07/04	GW11264ST	MANGANESE	REAL	TR1	2.99		UG/L	B	V1		1	YES	R	1720
B206989	01/07/04	GW11264ST	MERCURY	REAL	LD1	0.033		UG/L	U	1		1	YES	R	2
B206989	01/07/04	GW11264ST	MERCURY	REAL	TR1	0.033		UG/L	U	J1		1	YES	R	2
B206989	01/07/04	GW11264ST	METHYLENE CHLORIDE	REAL	TR1	1		UG/L	U	V1		1	NO	R	5
B206989	01/07/04	GW11264ST	MOLYBDENUM	REAL	TR1	5.3		UG/L	B	V1		1	YES	R	183
B206989	01/07/04	GW11264ST	MOLYBDENUM	REAL	LD1	5.27		UG/L	B	1		1	YES	R	183
B206989	01/07/04	GW11264ST	NAPHTHALENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	1460
B206989	01/07/04	GW11264ST	n-BUTYLBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	
B206989	01/07/04	GW11264ST	NICKEL	REAL	TR1	14.6		UG/L	B	V1		1	YES	R	140
B206989	01/07/04	GW11264ST	NITRATE/NITRITE	REAL	LD1	33500		UG/L		1	500	50		R	10000
B206989	01/07/04	GW11264ST	NITRATE/NITRITE	REAL	LD2	33500		UG/L		1	500	50	NO	R	10000
B206989	01/07/04	GW11264ST	NITRATE/NITRITE	REAL	TR2	34000		UG/L		V1	500	50	NO	R	10000
B206989	01/07/04	GW11264ST	n-PROPYLBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	
B206989	01/07/04	GW11264ST	p-CHLOROTOLUENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	
B206989	01/07/04	GW11264ST	POTASSIUM	REAL	TR1	17000		UG/L	B	V1		5	YES	R	
B206989	01/07/04	GW11264ST	PROPANE, 1,2-DIBROMO-3-CHLORO-	REAL	TR1	1		UG/L	U	V1		1	NO	R	1
B206989	01/07/04	GW11264ST	sec-BUTYLBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	

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Location	Sample Date	Sample Number	Analyte	QC Code	Result Type	Result	Error 2 Sigma	Units	Result Qualifier	Validation	Detection Limit	Dilution	Filtered	Well Class	Tier1 (ug/L or pCi/L)
B206989	01/07/04	GW11264ST	SELENIUM	REAL	TR1	325		UG/L		V1		1	YES	R	50
B206989	01/07/04	GW11264ST	SILVER	REAL	LD1	0.022		UG/L	B	1		1	YES	R	183
B206989	01/07/04	GW11264ST	SILVER	REAL	TR1	0.023		UG/L	B	V1		1	YES	R	183
B206989	01/07/04	GW11264ST	SODIUM	REAL	LD1	777000		UG/L		1		10	YES	R	
B206989	01/07/04	GW11264ST	SODIUM	REAL	TR1	721000		UG/L		V1		10	YES	R	
B206989	01/07/04	GW11264ST	STRONTIUM	REAL	LD1	6280		UG/L		1		1	YES	R	21900
B206989	01/07/04	GW11264ST	STRONTIUM	REAL	TR1	6410		UG/L		V1		1	YES	R	21900
B206989	01/07/04	GW11264ST	STYRENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	100
B206989	01/15/04	GW11264ST	SULFATE	REAL	TR1	2880000		UG/L		V1	19300	100	NO	R	500000
B206989	01/07/04	GW11264ST	tert-BUTYLBENZENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	
B206989	01/07/04	GW11264ST	TETRACHLOROETHENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	5
B206989	01/07/04	GW11264ST	THALLIUM	REAL	TR1	0.643		UG/L	B	V1		1	YES	R	12
B206989	01/07/04	GW11264ST	THALLIUM	REAL	LD1	0.354		UG/L	B	1		1	YES	R	12
B206989	01/07/04	GW11264ST	TIN	REAL	TR1	0.163		UG/L	B	UJ1		1	YES	R	21900
B206989	01/07/04	GW11264ST	TIN	REAL	LD1	0.127		UG/L	B	1		1	YES	R	21900
B206989	01/07/04	GW11264ST	TOLUENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	1000
B206989	01/07/04	GW11264ST	TOTAL XYLENES	REAL	TR1	3		UG/L	U	V1		1	NO	R	10000
B206989	01/07/04	GW11264ST	trans-1,2-DICHLOROETHENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	70
B206989	01/07/04	GW11264ST	trans-1,3-DICHLOROPROPENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	1
B206989	01/07/04	GW11264ST	TRICHLOROETHENE	REAL	TR1	1		UG/L	U	V1		1	NO	R	5
B206989	01/07/04	GW11264ST	TRICHLOROFLUOROMETHANE	REAL	TR1	1		UG/L	U	UJ1		1	NO	R	
B206989	01/07/04	GW11264ST	URANIUM, TOTAL	REAL	LD1	94.9		UG/L		1		1	YES	R	
B206989	01/07/04	GW11264ST	URANIUM, TOTAL	REAL	TR1	91.7		UG/L		V1		1	YES	R	
B206989	01/07/04	GW11264ST	URANIUM-233,-234	REAL	TR1	49.5	7.63	PCI/L		V1			YES	R	1.06
B206989	01/07/04	GW11264ST	URANIUM-233,-234	REAL	LD1	49.9	6.94	PCI/L		1			YES	R	1.06
B206989	01/07/04	GW11264ST	URANIUM-235	REAL	TR1	2.74	.886	PCI/L		V1			YES	R	1.01
B206989	01/07/04	GW11264ST	URANIUM-235	REAL	LD1	1.96	.683	PCI/L		1			YES	R	1.01
B206989	01/07/04	GW11264ST	URANIUM-238	REAL	TR1	32	5.16	PCI/L		V1			YES	R	0.768
B206989	01/07/04	GW11264ST	URANIUM-238	REAL	LD1	34.7	5.03	PCI/L		1			YES	R	0.768
B206989	01/07/04	GW11264ST	VANADIUM	REAL	TR1	2.61		UG/L	U	V1		1	YES	R	256
B206989	01/07/04	GW11264ST	VINYL CHLORIDE	REAL	TR1	1		UG/L	U	V1		1	NO	R	2
B206989	01/07/04	GW11264ST	ZINC	REAL	TR1	12.4		UG/L	B	V1		1	YES	R	11000
P416689	03/16/04	GW11282ST	ALUMINUM	REAL	TR1	25		UG/L		V1		1	YES	PE	36500
P416689	03/16/04	GW11282ST	ANTIMONY	REAL	TR1	2.6		UG/L	U	V1		1	YES	PE	10
P416689	03/16/04	GW11282ST	ARSENIC	REAL	TR1	2.1		UG/L	U	V1		1	YES	PE	50
P416689	03/16/04	GW11282ST	BARIUM	REAL	TR1	150		UG/L		V1		1	YES	PE	2000
P416689	03/16/04	GW11282ST	BERYLLIUM	REAL	TR1	0.32		UG/L	U	V1		1	YES	PE	5
P416689	03/16/04	GW11282ST	CADMIUM	REAL	TR1	0.2		UG/L	U	V1		1	YES	PE	5
P416689	03/16/04	GW11282ST	CALCIUM	REAL	TR1	110000		UG/L		V1		1	YES	PE	
P416689	03/16/04	GW11282ST	CHROMIUM	REAL	TR1	5		UG/L		V1		1	YES	PE	100
P416689	03/16/04	GW11282ST	COBALT	REAL	TR1	3.6		UG/L	B	V1		1	YES	PE	2190
P416689	03/16/04	GW11282ST	COPPER	REAL	TR1	1.5		UG/L	U	V1		1	YES	PE	1300
P416689	03/16/04	GW11282ST	IRON	REAL	TR1	12		UG/L	U	V1		1	YES	PE	
P416689	03/16/04	GW11282ST	LEAD	REAL	TR1	1		UG/L	U	J1		1	YES	PE	15
P416689	03/16/04	GW11282ST	LITHIUM	REAL	TR1	9.3		UG/L	B	V1		1	YES	PE	730
P416689	03/16/04	GW11282ST	MAGNESIUM	REAL	TR1	19000		UG/L		V1		1	YES	PE	
P416689	03/16/04	GW11282ST	MANGANESE	REAL	TR1	19		UG/L		J1		1	YES	PE	1720
P416689	03/16/04	GW11282ST	MERCURY	REAL	TR1	0.023		UG/L	U	J1		1	YES	PE	2
P416689	03/16/04	GW11282ST	MOLYBDENUM	REAL	TR1	7.2		UG/L	B	V1		1	YES	PE	183
P416689	03/16/04	GW11282ST	NICKEL	REAL	TR1	140		UG/L		V1		1	YES	PE	140
P416689	03/16/04	GW11282ST	POTASSIUM	REAL	TR1	1500		UG/L	B	V1		1	YES	PE	
P416689	03/16/04	GW11282ST	SELENIUM	REAL	TR1	2.3		UG/L	U	J1		1	YES	PE	50
P416689	03/16/04	GW11282ST	SILVER	REAL	TR1	0.26		UG/L	U	J1		1	YES	PE	183
P416689	03/16/04	GW11282ST	SODIUM	REAL	TR1	32000		UG/L		V1		1	YES	PE	
P416689	03/16/04	GW11282ST	STRONTIUM	REAL	TR1	640		UG/L		V1		1	YES	PE	21900
P416689	03/16/04	GW11282ST	THALLIUM	REAL	TR1	2.3		UG/L	U	J1		1	YES	PE	12
P416689	03/16/04	GW11282ST	TIN	REAL	TR1	2.2		UG/L	U	V1		1	YES	PE	21900
P416689	03/16/04	GW11282ST	URANIUM, TOTAL	REAL	TR1	39		UG/L	U	V1		1	YES	PE	
P416689	03/16/04	GW11282ST	VANADIUM	REAL	TR1	1.8		UG/L	U	V1		1	YES	PE	256
P416689	03/16/04	GW11282ST	ZINC	REAL	TR1	9.4		UG/L	B	V1		1	YES	PE	11000